Estimates for Pakage 01

Sl no	Name of Work
1	1) IMPROVEMENTS TO ROADS AND DRAINS AT MCECHS LAYOUT 1ST PHASE & 2ND PAHSE IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION.
2	IMPROVEMENTS TO ROADS AND DRAINS AT SAMPIGEHALLI AND CHOKKANAHALLI SURRUNDING AREA IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION
3	IMPROVEMENTS TO ROADS AND DRAINS AT BALAJI KURPA LAYOUT, BASAVALINGAPPANAGRA AND CENTER EXISE LAYOUT SURRUNDING AREA IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION
4	IMPROVEMENTS TO ROADS AND DRAINS AT BELLAHALLI AND KATTIGENAHALLI SURRUNDING AREA IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION
5	IMPROVEMENTS TO ROADS AND DRAINS AT KAVERI NAGARA AND SHARADI SAI NAGARA AND SURROUNDING AREA IN WARD NO. 06 BYATARAYANAPURA SUB DIVISION

Executive Engineer, Byatarayanapura Division

ESTIMATE

Project: IMPROVEMENTS TO ROADS AND DRAINS AT MCECHS LAYOUT 1ST PHASE & 2ND PAHSE IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name Of Work : Name Of Work :1) IMPROVEMENTS TO ROADS AND DRAINS AT MCECHS LAYOUT 1ST PHASE & 2ND PAHSE IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION.

Estimate : A — Est Cost: =200.00 Lakhs

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
		Cum							
	New Drain								
	MCEHS Layout		1	60.90	1.10	1.00	66.99		
	New Culvert	Cum							
	MCEHS Layout								
	Culvert		2	7.00	1.40	1.00	19.60		
	Basic rate	186.00							
	Loading and Unloading	118.00							
	Sub Total	304.00							
	Area weightage 10%	30.40							
	Sub Total	**334.40**							
	Total						86.59	334.40	28956.00
2	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	New Drain								
	MCEHS Layout		1	60.90	0.90	0.15	8.22		
	New Culvert	Cum							
	MCEHS Layout								
	Culvert		2	7.00	0.90	0.15	1.89		
	Basic rate	5752.00							
	Area weightage 10%	575.20							
	Sub Total	**6327.20**							
	Total						10.11	6327.20	63978.00
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)								
	Drain								
	Bottom Raft								
	New Drain								

CONSULTANCY ★ Shri ★ CONSTRUCTION AND

	MCEHS Layout		1	60.90	0.90	0.15	8.22		
	Side Walls		2	60.90	0.15	0.60	10.96		
	MCEHS Layout								
					Sub Total		19.18		
	New Culvert Raft								
	New Culvert	Cum	2	7.00	0.60	0.20	1.68		
	MCEHS Layout								
	Side Walls								
	MCEHS Layout		4	7.00	0.20	0.60	3.36		
	Culvert				Sub Total		5.04		
	Basic rate	6256.00							
	Add 5% for Shuttering	312.80							
		6568.80							
	Area weightage 10%	656.88							
	Sub Total	7225.68					24.22	7225.68	175032.00
	Total								
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)								
	For Drain	Cum					19.18		
		kg	Steel assumed 60Kg/Cum of				1151.01		
		tonne					1.15		
	For Culvert	Cum					5.04		
		kg	Steel assumed 90 Kg/Cum of				453.60		
		tonne					0.45		
	Basic rate	103329.00							
	Area weightage 10%	10332.90							
	Sub Total	113661.90					1.60	113661.90	182384.00
	Total								
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick made of M25 with OPC cement @ 340kgs per Cum with 20 mm and Down size graded granite metal coarse agg @.70 mixed including providing and removing centering, shuttering, shuttering propping etc. for edges of slabs with TMT (Fe500) COM, labor, labor, all Lead and Lift, HOM, Curing, including Cost of reinf. Etc, Complete as directed by the Engineer In charge of Work (Data Rate)								
	New Drain Cover Slab	Sqm							
	New Drain								
	MCEHS Layout		1	60.90	0.90		54.81		
	Data rate	2072.00							
	Total						54.81	2072.00	113567.00
6	Providing and Fixing pre cast covering Slab 230mm thick made out of CC 1:1.5:3 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Culvert Cover Slab	Sqm							
	New Culvert								
	MCEHS Layout								
	Culvert		2	7.00	1.20		16.80		
	Data rate	5037.00							
	Total						16.80	5037.00	84622.00

SHRIYA CONSTRUCTION AND CONSULTANCY

Road Works

7	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)								
		Cum							
	Dwaraka nagar bagalur cross, CC ROAD								
	1st Cross Road		1	33.00	3.00	0.25	24.75		
	2nd Cross Road		1	180.00	4.00	0.25	180.00		
	3rd Cross Road		1	250.00	4.50	0.25	281.25		
	Vinayaka nagar 8th Cross to 6th Cross Connecting Road								
	Cross Road		1	76.00	5.30	0.23	92.64		
	Bharathi Public School Road								
	1st Road		1	44.00	6.00	0.23	60.72		
	2nd Road		1	98.00	5.00	0.23	112.70		
	3rd Road		1	40.00	4.50	0.23	41.40		
	Shiva temple road								
	L Type road		1	107.00	1.00	0.23	24.61		
	L Type road		1	25.00	1.00	0.23	5.75		
	1st B Cross CC Road		1	105.00	5.00	0.15	78.75		
	Kuvempu Nagar Road Cut Portuin								
	Road		1	370.00	1.20	0.20	88.80		
	MCEHS Layout								
	1st Cross Road		1	125.00	6.20	0.23	178.25		
	2nd Cross Road		1	147.00	6.80	0.23	229.91		
	3rd Cross Road		1	140.00	7.20	0.23	231.84		
	Beside Jakkur Govt. School		1	109.00	1.00	0.23	25.07		
	Behind Jakkur Govt. School		1	375.00	1.00	0.23	86.25		
	Basic rate	186.00							
	Loading and Unloading	74.00							
	Sub Total	260.00							
	Area weightage 10%	26.00							
	Sub Total	286.00							
	Total						1742.69	286.00	498409.91
8	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A))								
		Cum							
	Vinayaka nagar 8th Cross to 6th Cross Connecting Road								
	Cross Road		1	76.00	5.30	0.23	92.64		
	Bharathi Public School Road								
	1st Road		1	44.00	6.00	0.23	60.72		

SHRIYA CONSTRUCTION AND CONSULTANCY

2nd Road		1	98.00	5.00	0.23	112.70		
3rd Road			40.00	4.50	0.23	41.40		
Shiva temple road								
L Type road		1	107.00	1.00	0.23	24.61		
L Type road		1	25.00	1.00	0.23	5.75		
1st B Cross		1	105.00	5.00	0.15	78.75		
Kuvempu Nagar								
Road		1	370.00	1.20	0.15	66.60		
MCEHS Layout								
1st Cross Road		1	125.00	6.20	0.23	178.25		
2nd Cross Road		1	147.00	6.80	0.23	229.91		
3rd Cross Road		1	140.00	7.20	0.23	231.84		
Beside Jakkur Govt. School		1	109.00	1.00	0.23	25.07		
Behind Jakkur Govt. School		1	375.00	1.00	0.23	86.25		
Basic rate	2394.00							
Area weightage 10%	239.40							
Sub Total	2633.40							
Total						1234.49	2633.40	3250911.23

9 Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))

	Sqm							
Vinayaka nagar 8th Cross to 6th Cross Connecting Road								
Cross Road		1	76.00	5.30		402.80		
Bharathi Public School Road								
1st Road		1	44.00	6.00		264.00		
2nd Road		1	98.00	5.00		490.00		
3rd Road			40.00	4.50		180.00		
Shiva temple road								
L Type road		1	107.00	1.00		107.00		
L Type road		1	25.00	1.00		25.00		
Kuvempu Nagar								
Road		1	370.00	1.20		444.00		
MCEHS Layout								
1st Cross Road		1	125.00	6.20		775.00		
2nd Cross Road		1	147.00	6.80		999.60		
3rd Cross Road		1	140.00	7.20		1008.00		
Beside Jakkur Govt. School		1	109.00	1.00		109.00		
Behind Jakkur Govt. School		1	375.00	1.00		375.00		
Basic rate	44.00							
Area weightage 10%	4.40							
Sub Total	48.40							
Total						5179.40	48.40	250682.96

10 Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-29,I No-5.3(i) of PWD SR 2021-22).

SHRIYA CONSTRUCTION AND CONSULTANCY

	Sqm							
Vinayaka nagar 8th Cross to 6th Cross Connecting Road								
Cross Road		1	76.00	5.30		402.80		
Bharathi Public School Road								
1st Road		1	44.00	6.00		264.00		
2nd Road		1	98.00	5.00		490.00		
3rd Road			40.00	4.50		180.00		
Shiva temple road								
L Type road		1	107.00	5.20		556.40		
L Type road		1	25.00	6.00		150.00		
Kuvempu Nagar								
Road		1	370.00	6.00		2220.00		
MCEHS Layout								
1st Cross Road		1	125.00	6.20		775.00		
2nd Cross Road		1	147.00	6.80		999.60		
3rd Cross Road		1	140.00	7.20		1008.00		
Beside Jakkur Govt. School		1	109.00	6.50		708.50		
Behind Jakkur Govt. School		1	375.00	7.00		2625.00		
Basic rate	12.00							
Area weightage 10%	1.20							
Sub Total	13.20							
Total						10379.30	**13.20**	137006.76

11 Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, ransporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))

	Cum							
Vinayaka nagar 8th Cross to 6th Cross Connecting Road								
Cross Road		1	76.00	5.30	0.05	20.14		
Bharathi Public School Road								
1st Road		1	44.00	6.00	0.05	13.20		
2nd Road		1	98.00	5.00	0.05	24.50		
3rd Road			40.00	4.50	0.05	9.00		
Shiva temple road								
L Type road		1	107.00	1.00	0.05	5.35		
L Type road		1	25.00	1.00	0.05	1.25		
Kuvempu Nagar								
Road		1	370.00	1.20	0.05	22.20		
MCEHS Layout								
1st Cross Road		1	125.00	6.20	0.05	38.75		
2nd Cross Road		1	147.00	6.80	0.05	49.98		
3rd Cross Road		1	140.00	7.20	0.05	50.40		
Beside Jakkur Govt. School		1	109.00	1.00	0.05	5.45		
Behind Jakkur Govt. School		1	375.00	1.00	0.05	18.75		

SHRIYA CONSTRUCTION AND CONSULTANCY

Basic rate	9889.00							
Area weightage 10%	988.90							
Sub Total	10877.90							
Total						258.97	10877.90	2817049.76

12 Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16)

	Cum							
Vinayaka nagar 8th Cross to 6th Cross Connecting Road								
Cross Road		1	76.00	5.30	0.04	16.11		
Bharathi Public School Road								
1st Road		1	44.00	6.00	0.04	10.56		
2nd Road		1	98.00	5.00	0.04	19.60		
3rd Road			40.00	4.50	0.04	7.20		
Shiva temple road								
L Type road		1	107.00	5.20	0.04	22.26		
L Type road		1	25.00	6.00	0.04	6.00		
Kuvempu Nagar								
Road		1	370.00	6.00	0.04	88.80		
MCEHS Layout								
1st Cross Road		1	125.00	6.20	0.04	31.00		
2nd Cross Road		1	147.00	6.80	0.04	39.98		
3rd Cross Road		1	140.00	7.20	0.04	40.32		
Beside Jakkur Govt. School		1	109.00	6.50	0.05	35.43		
Behind Jakkur Govt. School		1	375.00	7.00	0.05	131.25		
Basic rate	11531.00							
Area weightage 10%	1153.10							
Sub Total	12684.10							
Total						448.51	12684.10	5688907.64

13 Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)

	Sqm							
Vinayaka nagar 8th Cross to 6th Cross Connecting Road								
Cross Road		2	76.00	0.10		15.20		
Bharathi Public School Road								
1st Road		2	44.00	0.10		8.80		

SHRIYA CONSTRUCTION AND CONSULTANCY

2nd Road		2	98.00	0.10		19.60		
3rd Road			40.00	0.10		4.00		
Shiva temple road								
L Type road		2	107.00	0.10		21.40		
L Type road		2	25.00	0.10		5.00		
Kuvempu Nagar								
Road		2	370.00	0.10		74.00		
MCHS Layout								
1st Cross Road		2	125.00	0.10		25.00		
2nd Cross Road		2	147.00	0.10		29.40		
3rd Cross Road		2	140.00	0.10		28.00		
Beside Jakkur Govt. School		2	109.00	0.10		21.80		
Behind Jakkur Govt. School		2	375.00	0.10		75.00		
Basic rate	478.00							
Area weightage 10%	47.80							
Sub Total	525.80							
Total						327.20	525.80	172041.76

11 Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 (M 5.0) Using 40 mm nominal size graded crushed coarse aggregates(Specification No. 2.1.1 PWD SR 2021-22 Vol -I P.No.50)

	Cum							
CC Road Resurfacing								
Dwaraka nagar bagalur cross, CC ROAD								
1st Cross Road		1	33.00	3.00	0.15	14.85		
2nd Cross Road		1	180.00	4.00	0.15	108.00		
3rd Cross Road		1	250.00	4.50	0.15	168.75		
Basic rate	4976.00							
Area weightage 10%	497.60							
Sub Total	5473.60							
Total						291.60	5473.60	1596101.76

14 Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. (PWD SR 2021-22 Vol -III Pg 138 item no 20.29)

	Cum							
Dwaraka nagar bagalur cross, CC ROAD								
1st Cross Road		1	33.00	3.00	0.15	14.85		
2nd Cross Road		1	180.00	4.00	0.15	108.00		
3rd Cross Road		1	250.00	4.50	0.15	168.75		

SHRIYA CONSTRUCTION AND CONSULTANCY

	Basic rate	6837.00							
	Area weightage 10%	683.70							
	Sub Total	**7520.70**							
	Total						291.60	7520.70	2193036.12
16	**Cost of Haulage** Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)								
	Qty frm Item No-1	**t.Km**		86.59	1.28		110.84		
	Qty frm Item No-7			1742.69	1.28		2230.65		
	Basic rate	12.00					**2341.48**	105.60	247261.00
	8Km 12*8	96.00							
	Area Weightage 10%	9.60							
	Total	105.60							

Sub-Total for CSR 2018-19	17499947.91
GST Charges (12% of estimated cost)	2099994.00
DPR Charges (1% of estimated cost)	200000.00
Project management And Consultancy Charges(1% of estimated cost)	200000.00
Miscellenious and rounding	59.00
Grand Total Amount Rs.	20000000.00
(Rupees Two Crores Only)	

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The estimate is based on C.S.R of 2018-2019, PWD 2021-2022 Issue Rates and Data Rates.and Approved Data Rate of Bangalore
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other Programs or Grants

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub-Division
B.B.M.P

Executive Engineer
Byatarayanapura - Division
B.B.M.P

SHRIYA CONSTRUCTION AND CONSULTANCY

ESTIMATE

Project: IMPROVEMENTS TO ROADS AND DRAINS AT SAMPIGEHALLI AND CHOKKANAHALLI SURRUNDING AREA IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name Of Work : IMPROVEMENTS TO ROADS AND DRAINS AT SAMPIGEHALLI AND CHOKKANAHALLI SURRUNDING AREA IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION

Estimate : B

Est Cost: =200.00 Lakhs

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
		Cum							
	New Drain								
	Chokkanahalli		2	61.80	1.10	1.00	135.96		
	New Culvert	Cum							
	Chokkanahalli								
	Culvert		3	8.00	1.40	1.00	33.60		
	Basic rate	186.00							
	Loading and Unloading	118.00							
	Sub Total	304.00							
	Area weightage 10%	30.40							
	Sub Total	**334.40**							
	Total						169.56	334.40	56701.00
2	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	New Drain								
	Chokkanahalli		2	61.80	0.90	0.15	16.69		
	New Culvert	Cum							
	Chokkanahalli								
	Culvert		3	8.00	1.20	0.15	4.32		
	Basic rate	5752.00							
	Area weightage 10%	575.20							
	Sub Total	**6327.20**							
	Total						21.01	6327.20	132910.00
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)								
	Drain								
	Bottom Raft								

SHRIYA CONSTRUCTION AND CONSULTANCY

	New Drain								
	Chokkanahalli		2	61.80	0.90	0.15	16.69		
	Side Walls								
	Basavalingappa Layout		4	61.80	0.15	0.60	22.25		
					Sub Total		38.93		
	New Culvert Raft								
	New Culvert	Cum							
	Culvert		3	8.00	1.20	0.20	5.76		
	Side Walls								
	Basavalingappa Layout								
	Culvert		6	8.00	0.20	0.60	5.76		
					Sub Total		11.52		
	Basic rate	6256.00							
	Add 5% for Shuttering	312.80							
		6568.80							
	Area weightage 10%	656.88							
	Sub Total	7225.68							
	Total						50.45	7225.68	364565.00
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)								
	For Drain	Cum					38.93		
		kg	Steel assumed 60Kg/Cum of Concrete				2336.04		
		tonne					2.34		
	For Culvert	Cum					11.52		
		kg	Steel assumed 90 Kg/Cum of Concrete				1036.80		
		tonne					1.04		
	Basic rate	103329.00							
	Area weightage 10%	10332.90							
	Sub Total	113661.90							
	Total						3.37	113661.90	383364.00
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick made of M25 with OPC cement @ 340kgs per Cum with 20 mm and Down size graded granite metal coarse agg @.70 mixed including providing and removing centering, shuttering, shuttering propping etc. for edges of slabs with TMT (Fe500) COM, labor, labor, all Lead and Lift, HOM, Curing, including Cost of reinf. Etc, Complete as directed by the Engineer In charge of Work (Data Rate)								
	New Drain Cover Slab	Sqm							
	New Drain								
	Chokkanahalli		2	61.80	0.90		111.24		
	Data rate	2072.00							
	Total						111.24	2072.00	230490.00
6	Providing and Fixing pre cast covering Slab 230mm thick made out of CC 1:1.5:3 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Culvert Cover Slab	Sqm							
	New Culvert								
	Chokkanahalli								
	Culvert		3	8.00	1.20		28.80		
	Data rate	5037.00							
	Total						28.80	5037.00	145066.00
	Road Works								

SHRIYA CONSTRUCTION AND CONSULTANCY

7 Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)

	Cum							
Manjunath Layout Road								
1st Cross Road		1	120.00	6.50	0.23	179.40		
2nd Cross Road		1	138.00	7.00	0.23	222.18		
3rd Cross Road		1	130.00	7.50	0.23	224.25		
Kalidasa layout								
1st Road		1	30.00	5.00	0.23	34.50		
2nd Road		1	110.00	6.20	0.23	156.86		
Bhagat Enclave								
RHS Road 1		1	100.00	6.00	0.23	138.00		
RHS Road 2		1	55.00	6.00	0.23	75.90		
LHS Road 1		1	80.00	6.00	0.23	110.40		
Royal Enclave Layout								
1st Cross Road		1	230.00	6.00	0.23	317.40		
2nd Cross Raod		1	60.00	6.00	0.23	82.80		
Cross to 1st and 2nd Cross Road		1	140.00	6.00	0.23	193.20		
3rd Cross Road		1	200.00	6.40	0.23	294.40		
Basic rate	186.00							
Loading and Unloading	74.00							
Sub Total	260.00							
Area weightage 10%	26.00							
Sub Total	286.00							
Total						2029.29	286.00	580376.94

8 Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A))

	Cum							
Manjunath Road								
1st Cross Road		1	120.00	6.50	0.23	179.40		
2nd Cross Road		1	138.00	7.00	0.23	222.18		
3rd Cross Road		1	130.00	7.50	0.23	224.25		
Kalidasa layout								
1st Road		1	30.00	5.00	0.23	34.50		
2nd Road		1	110.00	6.20	0.23	156.86		
Bhagat Enclave								
RHS Road		1	100.00	6.00	0.23	138.00		
RHS Road		1	55.00	6.00	0.23	75.90		
LHS Road		1	80.00	6.00	0.23	110.40		
Royal Enclave Layout								
1st Cross Road		1	230.00	6.00	0.23	317.40		
2nd Cross Raod		1	60.00	6.00	0.23	82.80		
Cross to 1st and 2nd Cross Road		1	140.00	6.00	0.23	193.20		

			1	200.00	6.40	0.23	294.40		
	3rd Cross Road								
		2394.00							
	Basic rate	239.40							
	Area weightage 10%	2633.40					2029.29	2633.40	5343932.29
	Sub Total								
	Total								

9 Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))

	Sqm							
Manjunath Road		1	120.00	6.50		780.00		
1st Cross Road		1	138.00	7.00		966.00		
2nd Cross Road		1	130.00	7.50		975.00		
3rd Cross Road								
Kalidasa layout		1	30.00	5.00		150.00		
1st Road		1	110.00	6.20		682.00		
2nd Road								
Bhagat Enclave		1	100.00	6.00		600.00		
RHS Road		1	55.00	6.00		330.00		
RHS Road		1	80.00	6.00		480.00		
LHS Road								
Royal Enclave Layout		1	230.00	6.00		1380.00		
1st Cross Road		1	60.00	6.00		360.00		
2nd Cross Raod		1	140.00	6.00		840.00		
Cross to 1st and 2nd Cross Road								
		1	200.00	6.40		1280.00		
3rd Cross Road								
	44.00							
Basic rate	4.40							
Area weightage 10%	48.40					8823.00	48.40	427033.20
Sub Total								
Total								

10 Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-29,I No-5.3(i) of PWD SR 2021-22).

	Sqm							
Manjunath Road								
1st Cross Road		1	120.00	6.50		780.00		
2nd Cross Road		1	138.00	7.00		966.00		
3rd Cross Road		1	130.00	7.50		975.00		
Kalidasa layout								
1st Road		1	30.00	5.00		150.00		
2nd Road		1	110.00	6.20		682.00		
Bhagat Enclave								
RHS Road		1	100.00	6.00		600.00		
RHS Road		1	55.00	6.00		330.00		
LHS Road		1	80.00	6.00		480.00		
Royal Enclave Layout								
1st Cross Road		1	230.00	6.00		1380.00		
2nd Cross Raod		1	60.00	6.00		360.00		
Cross to 1st and 2nd Cross Road		1	140.00	6.00		840.00		
3rd Cross Road		1	200.00	6.40		1280.00		

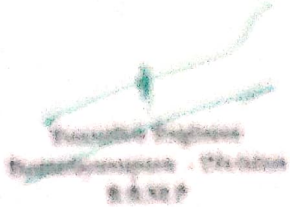
SHRIYA CONSTRUCTION AND CONSULTANCY

	Basic rate	12.00							
	Area weightage 10%	1.20							
	Sub Total	13.20							
	Total						8823.00	13.20	116463.60
11	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, ransporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21 22 Vol III Pg no 33 Item No 5.12 (C))								
		Cum							
	Manjunath Road								
	1st Cross Road		1	120.00	6.50	0.05	39.00		
	2nd Cross Road		1	138.00	7.00	0.05	48.30		
	3rd Cross Road		1	130.00	7.50	0.05	48.75		
	Kalidasa layout								
	1st Road		1	30.00	5.00	0.05	7.50		
	2nd Road		1	110.00	6.20	0.05	34.10		
	Bhagat Enclave								
	RHS Road		1	100.00	6.00	0.05	30.00		
	RHS Road		1	55.00	6.00	0.05	16.50		
	LHS Road		1	80.00	6.00	0.05	24.00		
	Royal Enclave Layout								
	1st Cross Road		1	230.00	6.00	0.05	69.00		
	2nd Cross Raod		1	60.00	6.00	0.05	18.00		
	Cross to 1st and 2nd Cross Road		1	140.00	6.00	0.05	42.00		
	3rd Cross Road		1	200.00	6.40	0.05	64.00		
	Basic rate	9889.00							
	Area weightage 10%	988.90							
	Sub Total	10877.90							
	Total						**441.15**	10877.90	4798785.59
12	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16)								
		Cum							
	Manjunath Road								
	1st Cross Road		1	120.00	6.50	0.04	31.20		
	2nd Cross Road		1	138.00	7.00	0.04	38.64		
	3rd Cross Road		1	130.00	7.50	0.04	39.00		
	Kalidasa layout								
	1st Road		1	30.00	5.00	0.04	6.00		
	2nd Road		1	110.00	6.20	0.04	27.28		
	Bhagat Enclave								
	RHS Road		1	100.00	6.00	0.04	24.00		
	RHS Road		1	55.00	6.00	0.04	13.20		
	LHS Road		1	80.00	6.00	0.04	19.20		
	Royal Enclave Layout								
	1st Cross Road		1	230.00	6.00	0.04	55.20		
	2nd Cross Raod		1	60.00	6.00	0.04	14.40		
	Cross to 1st and 2nd Cross Road		1	140.00	6.00	0.04	33.60		

SHRIYA CONSTRUCTION AND CONSULTANCY

	3rd Cross Road		1	200.00	6.40	0.04	51.20		
	Basic rate	11531.00							
	Area weightage 10%	1153.10							
	Sub Total	**12684.10**							
	Total						352.92	12684.10	4476472.57
13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)								
		Sqm							
	Manjunath Road								
	1st Cross Road		2	120.00	0.10		24.00		
	2nd Cross Road		2	138.00	0.10		27.60		
	3rd Cross Road		2	130.00	0.10		26.00		
	Kalidasa layout								
	1st Road		2	30.00	0.10		6.00		
	2nd Road		2	110.00	0.10		22.00		
	Bhagat Enclave								
	RHS Road		2	100.00	0.10		20.00		
	RHS Road		2	55.00	0.10		11.00		
	LHS Road		2	80.00	0.10		16.00		
	Royal Enclave Layout								
	1st Cross Road		2	230.00	0.10		46.00		
	2nd Cross Raod		2	60.00	0.10		12.00		
	Cross to 1st and 2nd Cross Road		2	140.00	0.10		28.00		
	3rd Cross Road		2	200.00	0.10		40.00		
	Basic rate	478.00							
	Area weightage 10%	47.80							
	Sub Total	**525.80**							
	Total						**278.60**	**525.80**	**146487.88**
14	**Cost of Haulage** Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)								
	Qty frm Item No-1	**t.Km**		169.56	1.28		217.04		
	Qty frm Item No-7			2029.29	1.28		2597.49		
	Basic rate	**12.00**					**2814.53**	**105.60**	297215.00
	8Km 12*8	96.00							
	Area Weightage 10%	9.60							
	Total	**105.60**							

SHRIYA CONSTRUCTION AND CONSULTANCY



ESTIMATE

Project: IMPROVEMENTS TO ROADS AND DRAINS AT BALAJI KURPA LAYOUT, BASAVALINGAPPANAGRA AND CENTER EXISE LAYOUT SURRUNDING AREA IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name Of Work : IMPROVEMENTS TO ROADS AND DRAINS AT BALAJI KURPA LAYOUT, BASAVALINGAPPANAGRA AND CENTER EXISE LAYOUT SURRUNDING AREA IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION

Est Cost: =200.00 Lakhs

Estimate : C

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
	Drain Desilting	Cum							
	Basavalingappa Layout								
	5th Cross Road		2	170.40	0.50	0.40	68.16		
	4th Cross Road		2	175.20	0.50	0.40	70.08		
	Cross Road to 5th Cross Road		1	130.50	0.50	0.40	26.10		
	Cross Road to 4th Cross Road		1	100.00	0.50	0.40	20.00		
	Cross Road to Al Auds School		2	95.00	0.50	0.40	38.00		
	3rd Cross Road		2	80.00	0.50	0.40	32.00		
	Main Road		2	200.00	0.50	0.40	80.00		
	1st Cross Road LHS		2	80.00	0.50	0.40	32.00		
	1st Cross Road RHS		2	75.00	0.50	0.40	30.00		
	2nd Cross Road LHS		2	70.00	0.50	0.40	28.00		
	2nd Cross Road RHS		2	68.00	0.50	0.40	27.20		
	3rd A Cross Road LHS		2	70.00	0.50	0.35	24.50		
	Parallel Road to 1st Cross Road		2	130.00	0.50	0.40	52.00		
	Cross Road 1		1	23.00	0.50	0.40	4.60		
	Cross Road 2		1	24.00	0.50	0.40	4.80		
	Cross Road 3		1	26.00	0.50	0.40	5.20		
	Cross Road 4		1	24.00	0.50	0.40	4.80		
	Cross Road 5		1	25.00	0.50	0.40	5.00		
	End Road RHS		1	27.50	0.50	0.40	5.50		
	New Drain								
	Basavalingappa Layout		2	55.00	1.10	1.00	121.00		
	Main Road		2	26.30	1.10	1.00	57.86		
	New Culvert	Cum							
	Basavalingappa Layout								
	Culvert		5	6.00	1.40	1.00	42.00		
	Basic rate	186.00							
	Loading and Unloading	118.00							
	Sub Total	304.00							
	Area weightage 10%	30.40							
	Sub Total	334.40							
	Total						778.80	334.40	260431.00
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (PWD SR 2018-2019 P.No-27,I No-5.33)								
		Sqm							
	BS Slab of Drain								
	Open Drain (Sides & Bottom)	Sqm	Width=Perimeter of Drain in U Shape						
	Basavalingappa Layout								
	5th Cross Road		2	170.40	1.45		494.16		
	4th Cross Road		2	175.20	1.45		508.08		

SHRIYA CONSTRUCTION AND CONSULTANCY

Cross Road to 5th Cross Road		1	130.50	1.45		189.23		
Cross Road to 4th Cross Road		1	100.00	1.45		145.00		
Cross Road to Al Auds School		2	95.00	1.45		275.50		
3rd Cross Road		2	80.00	1.45		232.00		
Main Road		2	200.00	1.45		580.00		
1st Cross Road LHS		2	80.00	1.45		232.00		
1st Cross Road RHS		2	75.00	1.45		217.50		
2nd Cross Road LHS		2	70.00	1.45		203.00		
2nd Cross Road RHS		2	68.00	1.45		197.20		
3rd A Cross Road LHS		2	70.00	1.45		203.00		
Parallel Road to 1st Cross Road								
		2	130.00	1.45		377.00		
Cross Road 1		1	23.00	1.45		33.35		
Cross Road 2		1	24.00	1.45		34.80		
Cross Road 3		1	26.00	1.45		37.70		
Cross Road 4		1	24.00	1.45		34.80		
Cross Road 5		1	25.00	1.45		36.25		
End Road RHS		1	27.50	1.45		39.88		
				Total		4070.44		
Deduct 26% for Missing/Damaged						1058.31		
Consider 70% Qnty for Removing & Refixing						3012.13		
Basic rate	105.00							
Area weightage 6%	6.30							
Sub Total	**111.30**							
Total						3012.13	111.30	335249.58

3 Providing B S slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)

	Sqm							
Provide 30% new BS Slab	From item no.01					1058.31		
Data rate	**837.00**							
Total						1058.31	837.00	885809.15

4 Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)

New Drain	Cum							
Basavalingappa Layout Cross Road		2	55.00	0.90	0.15	14.85		
Main Road		2	26.30	0.90	0.15	7.10		
New Culvert	Cum							
Basavalingappa Layout								
Culvert		5	6.00	1.20	0.15	5.40		
Basic rate	5752.00							
Area weightage 10%	575.20							
Sub Total	**6327.20**							

SHRIYA CONSTRUCTION AND CONSULTANCY

	Total							27.35	6327.20	173056.00
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)									
	Drain									
	Bottom Raft									
	New Drain	Cum								
	Basavalingappa Layout		2	55.00	0.90	0.15	14.85			
	Main Road		2	26.30	0.90	0.15	7.10			
	Side Walls									
	Basavalingappa Layout		4	55.00	0.15	0.60	19.80			
	Main Road		4	26.30	0.15	0.60	9.47			
					Sub Total		51.22			
	New Culvert Raft									
	New Culvert	Cum								
	Basavalingappa Layout									
	Culvert		5	6.00	1.20	0.20	7.20			
	Side Walls									
	Basavalingappa Layout									
	Culvert		10	6.00	0.20	0.60	7.20			
					Sub Total		14.40			
	Basic rate	6256.00								
	Add 5% for Shuttering	312.80								
		6568.80								
	Area weightage 10%	656.88								
	Sub Total	7225.68								
	Total							65.62	7225.68	474142.00
6	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)									
	For Drain	Cum					51.22			
		kg	Steel assumed 60Kg/Cum of Concrete				3073.14			
		tonne					3.07			
	For Culvert	Cum					14.40			
		kg	Steel assumed 90 Kg/Cum of Concrete				1296.00			
		tonne					1.30			
	Basic rate	103329.00								
	Area weightage 10%	10332.90								
	Sub Total	113661.90								
	Total							4.37	113661.90	496605.00
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick made of M25 with OPC cement @ 340kgs per Cum with 20 mm and Down size graded granite metal coarse agg @.70 mixed including providing and removing centering, shuttering, shuttering propping etc. for edges of slabs with TMT (Fe500) COM, labor, labor, all Lead and Lift, HOM, Curing, including Cost of reinf. Etc, Complete as directed by the Engineer In charge of Work (Data Rate)									
	New Drain Cover Slab	Sqm								
	New Drain	Cum								
	Basavalingappa Layout		2	55.00	0.90		99.00			
	Main Road		2	26.30	0.90		47.34			

	Data rate	2072.00							
	Total						146.34	2072.00	303217.00
8	Providing and Fixing pre cast covering Slab 230mm thick made out of CC 1:1.5:3 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
	Culvert Cover Slab	Sqm							
	New Culvert								
	Basavalingappa Layout								
	Culvert		5	6.00	1.20		36.00		
	Data rate	5037.00							
	Total						36.00	5037.00	181332.00
	Road Works								
9	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)								
		Cum							
	Basavalingappa Layout								
	New Asphalt Road								
	2nd Cross Road LHS		1	80.00	5.20	0.23	95.68		
	2nd Cross Road RHS		1	55.00	5.20	0.23	65.78		
	3rd Cross Road		1	80.00	5.20	0.23	95.68		
	3rd A Cross Road		1	70.00	5.20	0.23	83.72		
	5th Cross Road		1	170.40	5.20	0.20	177.22		
	4th Cross Road		1	175.20	5.20	0.20	182.21		
	Main Road		1	200.00	8.00	0.20	320.00		
	1st Cross Road LHS		1	80.00	5.20	0.20	83.20		
	1st Cross Road RHS		1	75.00	5.20	0.20	78.00		
	New CC Road								
	5th Cross to Last Road		1	70.00	3.7	0.3	77.70		
	Cross Road RHS		1	70.00	3.5	0.3	73.50		
	CC Road Resurfacing								
	Cross Road to 5th Cross Road		1	130.50	1.50	0.20	39.15		
	Cross Road to 4th Cross Road		1	100.00	1.50	0.20	30.00		
	Cross Road to Al Auds School		1	95.00	1.50	0.20	28.50		
	Parallel Road to 1st Cross Road		1	130.00	1.50	0.20	39.00		
	Cross Road 1		1	23.00	1.50	0.20	6.90		
	Cross Road 2		1	24.00	1.50	0.20	7.20		
	Cross Road 3		1	26.00	1.50	0.20	7.80		
	Cross Road 4		1	24.00	1.50	0.20	7.20		
	Cross Road 5		1	25.00	1.50	0.20	7.50		
	End Road RHS		1	27.50	1.50	0.20	8.25		
	Basic rate	186.00							
	Loading and Unloading	74.00							
	Sub Total	260.00							
	Area weightage 10%	26.00							
	Sub Total	286.00					1514.18	286.00	433056.62
10	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A))								
		Cum							
	New Asphalt Road								

SHRIYA CONSTRUCTION AND CONSULTANCY

2nd Cross Road LHS		1	80.00	5.20	0.23	95.68		
2nd Cross Road RHS		1	75.00	5.20	0.23	89.70		
3rd Cross Road		1	80.00	5.20	0.23	95.68		
3rd A Cross Road		1	70.00	5.20	0.23	83.72		
5th Cross Road		1	170.40	5.20	0.15	132.91		
4th Cross Road		1	175.20	5.20	0.15	136.66		
Main Road		1	200.00	8.00	0.15	240.00		
1st Cross Road LHS		1	80.00	5.20	0.15	62.40		
1st Cross Road RHS		1	75.00	5.20	0.15	58.50		
Basic rate	2394.00							
Area weightage 10%	239.40							
Sub Total	**2633.40**							
Total						995.25	2633.40	2620886.08

11 Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))

	Sqm							
New Asphalt Road								
2nd Cross Road LHS		1	80.00	5.20		416.00		
2nd Cross Road RHS		1	75.00	5.20		390.00		
3rd Cross Road		1	80.00	5.20		416.00		
3rd A Cross Road		1	70.00	5.20		364.00		
5th Cross Road		1	170.40	5.20		886.08		
4th Cross Road		1	175.20	5.20		911.04		
Main Road		1	200.00	8.00		1600.00		
1st Cross Road LHS		1	80.00	5.20		416.00		
1st Cross Road RHS		1	75.00	5.20		390.00		
Basic rate	44.00							
Area weightage 10%	4.40							
Sub Total	**48.40**							
Total						5789.12	48.40	280193.41

12 Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-29,I No-5.3(i) of PWD SR 2021-22).

	Sqm							
Basavalingappa Layout								
New Asphalt Road								
2nd Cross Road LHS		1	80.00	5.20		416.00		
2nd Cross Road RHS		1	75.00	5.20		390.00		
3rd Cross Road		1	80.00	5.20		416.00		
3rd A Cross Road		1	70.00	5.20		364.00		
5th Cross Road		1	170.40	5.20		886.08		
4th Cross Road		1	175.20	5.20		911.04		
Main Road		1	200.00	8.00		1600.00		
1st Cross Road LHS		1	80.00	5.20		416.00		
1st Cross Road RHS		1	75.00	5.20		390.00		
Basic rate	12.00							
Area weightage 10%	1.20							
Sub Total	13.20							
Total						5789.12	13.20	76416.38

SHRIYA CONSTRUCTION AND CONSULTANCY

13	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))								
		Cum							
	Basavalingappa Layout								
	New Asphalt Road								
	2nd Cross Road LHS		1	80.00	5.20	0.05	20.80		
	2nd Cross Road RHS		1	75.00	5.20	0.05	19.50		
	3rd Cross Road		1	80.00	5.20	0.05	20.80		
	3rd A Cross Road		1	70.00	5.20	0.05	18.20		
	5th Cross Road		1	170.40	5.20	0.05	44.30		
	4th Cross Road		1	175.20	5.20	0.05	45.55		
	Main Road		1	200.00	8.00	0.05	80.00		
	1st Cross Road LHS		1	80.00	5.20	0.05	20.80		
	1st Cross Road RHS		1	75.00	5.20	0.05	19.50		
	Basic rate	9889.00							
	Area weightage 10%	988.90							
	Sub Total	**10877.90**							
	Total						289.46	10877.90	3148673.42
14	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16)								

SHRIYA CONSTRUCTION AND CONSULTANCY

	Cum							
Basavalingappa Layout								
New Asphalt Road								
2nd Cross Road LHS		1	80.00	5.20	0.04	16.64		
2nd Cross Road RHS		1	75.00	5.20	0.04	15.60		
3rd Cross Road		1	80.00	5.20	0.04	16.64		
3rd A Cross Road		1	70.00	5.20	0.04	14.56		
5th Cross Road		1	170.40	5.20	0.04	35.44		
4th Cross Road		1	175.20	5.20	0.04	36.44		
Main Road		1	200.00	8.00	0.04	64.00		
1st Cross Road LHS		1	80.00	5.20	0.04	16.64		
1st Cross Road RHS		1	75.00	5.20	0.04	15.60		
Basic rate	11531.00							
Area weightage 10%	1153.10							
Sub Total	**12684.10**							
Total						231.56	12684.10	2937191.08

15 Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)

	Sqm							
New Asphalt Road								
2nd Cross Road LHS		2	80.00	0.10		16.00		
2nd Cross Road RHS		2	75.00	0.10		15.00		
3rd Cross Road		2	80.00	0.10		16.00		
3rd A Cross Road		2	70.00	0.10		14.00		
5th Cross Road		2	170.40	0.10		34.08		
4th Cross Road		2	175.20	0.10		35.04		
Main Road		2	200.00	0.10		40.00		
1st Cross Road LHS		2	80.00	0.10		16.00		
1st Cross Road RHS		2	75.00	0.10		15.00		
Basic rate	478.00							
Area weightage 10%	47.80							
Sub Total	**525.80**							
Total						201.12	525.80	105748.90

16 Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 (M 5.0) Using 40 mm nominal size graded crushed coarse aggregates(Specification No. 2.1.1 PWD SR 2021-22 Vol -I P.No.50)

	Cum							
New CC Road								
5th Cross to Last Road		1	70.00	3.7	0.15	38.85		
Cross Road RHS		1	55.00	3.5	0.15	28.88		
Cross Road to 5th Cross Road		1	130.50	1.50	0.15	29.36		
Cross Road to 4th Cross Road		1	100.00	1.50	0.15	22.50		
Cross Road to Al Auds School		1	95.00	1.50	0.15	21.38		
Parallel Road to 1st Cross Road		1	130.00	1.50	0.15	29.25		
Cross Road 1		1	23.00	1.50	0.15	5.18		
Cross Road 2		1	24.00	1.50	0.15	5.40		

CONSULTANCY ★ CONSTRUCTION AND

Cross Road 3		1	26.00	1.50	0.15	5.85		
Cross Road 4		1	24.00	1.50	0.15	5.40		
Cross Road 5		1	25.00	1.50	0.15	5.63		
End Road RHS		1	27.50	1.50	0.15	6.19		
Basic rate	4976.00							
Area weightage 10%	497.60							
Sub Total	5473.60							
Total						203.85	5473.60	1115793.36

17 Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. (PWD SR 2021-22 Vol -III Pg 138 item no 20.29)

	Cum							
New CC Road								
5th Cross to Last Road		1	70.00	3.7	0.15	38.85		
Cross Road RHS		1	55.00	3.5	0.15	28.88		
Cross Road to 5th Cross Road		1	130.50	3.50	0.15	68.51		
Cross Road to 4th Cross Road		1	100.00	3.50	0.15	52.50		
Cross Road to Al Auds School		1	95.00	3.50	0.15	49.88		
Parallel Road to 1st Cross Road		1	130.00	5.50	0.15	107.25		
Cross Road 1		1	23.00	4.50	0.15	15.53		
Cross Road 2		1	24.00	4.50	0.15	16.20		
Cross Road 3		1	26.00	4.50	0.15	17.55		
Cross Road 4		1	24.00	4.50	0.15	16.20		
Cross Road 5		1	25.00	4.50	0.15	16.88		
End Road RHS		1	27.50	4.50	0.15	18.56		
Basic rate	6837.00							
Area weightage 10%	683.70							
Sub Total	7520.70							
Total						446.78	7520.70	3360060.74

18 **Cost of Haulage** Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)

Qty frm Item No-1	**t.Km**		778.80	1.28		996.86		
Qty frm Item No-9			1514.18	1.28		1938.16		
Basic rate	12.00					2935.02	105.60	309939.00
8Km 12*8	96.00							
Area Weightage 10%	9.60							
Total	105.60							

Grand Total	17497801.00
GST Charges (12% of estimated cost)	2099737.00
DPR Charges (1% of estimated cost)	200000.00
Project management And Consultancy Charges(1% of estimated cost)	200000.00
Miscellenious and rounding	2462.00
Grand Total Amount Rs.	20000000.00
(Rupees Two Crores Only)	

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The estimate is based on C.S.R of 2018-2019, PWD 2021-2022 Issue Rates and Data Rates.and Approved Data Rate of Bangalore
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other Programs or Grants

Assistant Engineer
Ward No.05

Executive Engineer
Byatarayanapura - Division
B.B.M.P

Assistant Executive Engineer
Byatarayanapura Sub-Division
B.B.M.P

SHRIVA CONSTRUCTION AND CONSULTANCY

ESTIMATE

Project: I IMPROVEMENTS TO ROADS AND DRAINS AT BELLAHALLI AND KATTIGENAHALLI SURRUNDING AREA IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION05 BYATARAYANAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name Of Work : IMPROVEMENTS TO ROADS AND DRAINS AT BELLAHALLI AND KATTIGENAHALLI SURRUNDING AREA IN WARD NO. 05 BYATARAYANAPURA SUB DIVISION

Est Cost: =200.00 Lakhs

Estimate : D

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
		Cum							
	New Drain								
	Kattigenahalli		2	94.10	1.10	1.00	207.02		
	New Culvert	Cum							
	Kattigenahalli								
	2nd Cross Road		4	7.00	1.40	1.00	39.20		
	Basic rate	186.00							
	Loading and Unloading	118.00							
	Sub Total	304.00							
	Area weightage 10%	30.40							
	Sub Total	**334.40**							
	Total						246.22	334.40	82336.00
2	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	For Drain	Cum							
	New Drain								
	Cross Road		2	94.10	1.00	0.15	28.23		
	New Culvert	Cum							
	Kattigenahalli								
	2nd Cross Road		4	7.00	1.20	0.15	5.04		
	Basic rate	5752.00							
	Area weightage 10%	575.20							
	Sub Total	**6327.20**							
	Total						33.27	6327.20	210505.94
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)								
	Drain								
	Bottom Raft	Cum							
	New Drain								
	Cross Road		2	94.10	0.90	0.15	25.41		
	Side Walls								
	New Drain								

SHRIYA CONSTRUCTION AND CONSULTANCY

Cross Road		4	94.10	0.20	0.60	45.17		
				Sub Total		70.58		
New Culvert	Cum							
Kattigenahalli		4	7.00	1.20	0.20	6.72		
Side Walls								
Kattigenahalli		8	7.00	0.20	0.60	6.72		
				Sub Total		13.44		
Basic rate	6256.00							
Add 5% for Shuttering	312.80							
	6568.80							
Area weightage 10%	656.88							
Sub Total	7225.68							
Total						84.02	7225.68	607065.51
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)							
For Drain	Cum					70.58		
	kg	Steel assumed 60Kg/Cum of Concrete				4234.50		
	tonne					4.23		
For Culvert	Cum					13.44		
	kg	Steel assumed 90 Kg/Cum of Concrete				1209.60		
	tonne					1.21		
Basic rate	103329.00							
Area weightage 10%	10332.90							
Sub Total	113661.90							
Total						5.44	113661.90	618786.75
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick made of M25 with OPC cement @ 340kgs per Cum with 20 mm and Down size graded granite metal coarse agg @.70 mixed including providing and removing centering, shuttering, shuttering propping etc. for edges of slabs with TMT (Fe500) COM, labor, labor, all Lead and Lift, HOM, Curing, including Cost of reinf. Etc, Complete as directed by the Engineer In charge of Work (Data Rate)							
New Drain Cover Slab	Sqm							
New Drain								
Cross Road		2	94.10	0.90		169.38		
Data rate	2072.00							
Total						169.38	2072.00	350955.36
6	Providing and Fixing pre cast covering Slab 230mm thick made out of CC 1:1.5:3 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge							
Culvert Cover Slab	Sqm							
Kattigenahalli		4	7.00	1.20		33.60		
Data rate	5037.00							
Total						33.60	5037.00	169243.20
	Road Works							
7	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)							
	Cum							
Kattigenahalli								
Cross Road 1		1	74.00	1.50	0.20	22.20		
Cross Road 2		1	96.00	1.50	0.20	28.80		

SHRIYA CONSTRUCTION AND CONSULTANCY

	Cross Road 3		1	157.00	1.50	0.20	47.10		
	Cross Road 4		1	154.00	1.50	0.20	46.20		
	Cross Road 5		1	136.00	1.50	0.20	40.80		
	Reva College Road								
			1	355.00	5.00	0.23	408.25		
	Bellahalli								
	2nd Cross Road		1	138.00	4.00	0.20	110.40		
	BSF STF Layout								
	Cross Road		1	120.00	6.65	0.23	183.54		
	Niranthara layout								
	1st Cross Road		1	220.00	5.00	0.23	253.00		
	2nd Cross Road		1	180.00	5.00	0.23	207.00		
	Dutta Township								
	1st Cross Road		1	115.00	6.00	0.23	158.70		
	2nd Cross Road		1	135.00	6.00	0.23	186.30		
	Basic rate	186.00							
	Loading and Unloading	74.00							
	Sub Total	260.00							
	Area weightage 10%	26.00							
	Sub Total	286.00							
	Total						1692.29	286.00	483994.94
8	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A))								
		Cum							
	Reva College Road								
			1	355.00	5.00	0.23	408.25		
	Bellahalli								
	2nd Cross Road		1	138.00	4.00	0.23	126.96		
	BSF STF Layout								
	Cross Road		1	120.00	6.65	0.23	183.54		
	Nirvana layout								
	1st Cross Road		1	220.00	5.00	0.23	253.00		
	2nd Cross Road		1	180.00	5.00	0.23	207.00		
	Dutta Township								
	1st Cross Road		1	115.00	6.00	0.23	158.70		
	2nd Cross Road		1	135.00	6.00	0.23	186.30		
	Basic rate	2394.00							
	Area weightage 10%	239.40							
	Sub Total	**2633.40**							
	Total						1523.75	2633.40	4012643.25
9	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))								
		Sqm							
	Reva College Road								
			1	355.00	5.00		1775.00		
	Bellahalli								
	2nd Cross Road		1	138.00	4.00		552.00		
	BSF STF Layout								
	Cross Road		1	120.00	6.65		798.00		

	Nirvana layout								
	1st Cross Road		1	220.00	5.00		1100.00		
	2nd Cross Road		1	180.00	5.00		900.00		
	Dutta Township								
	1st Cross Road		1	115.00	6.00		690.00		
	2nd Cross Road		1	135.00	6.00		810.00		
	Basic rate	44.00							
	Area weightage 10%	4.40							
	Sub Total	48.40							
	Total						6625.00	48.40	320650.00
10	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-29,I No-5.3(i) of PWD SR 2021-22).								
		Sqm							
	Reva College Road								
			1	355.00	5.00		1775.00		
	Bellahalli								
	2nd Cross Road		1	138.00	4.00		552.00		
	BSF STF Layout								
	Cross Road		1	120.00	6.65		798.00		
	Nirvana layout								
	1st Cross Road		1	220.00	5.00		1100.00		
	2nd Cross Road		1	180.00	5.00		900.00		
	Dutta Township								
	1st Cross Road		1	115.00	6.00		690.00		
	2nd Cross Road		1	135.00	6.00		810.00		
	Basic rate	12.00							
	Area weightage 10%	1.20							
	Sub Total	13.20							
	Total						6625.00	13.20	87450.00
11	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, ransporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))								
		Cum							
	Reva College Road								
			1	355.00	5.00	0.05	88.75		
	Bellahalli								
	2nd Cross Road		1	138.00	4.00	0.05	27.60		
	BSF STF Layout								
	Cross Road		1	120.00	6.65	0.05	39.90		
	Nirvana layout								
	1st Cross Road		1	220.00	5.00	0.05	55.00		
	2nd Cross Road		1	180.00	5.00	0.05	45.00		
	Dutta Township								
	1st Cross Road		1	115.00	6.00	0.05	34.50		
	2nd Cross Road		1	135.00	6.00	0.05	40.50		
	Basic rate	9889.00							
	Area weightage 10%	988.90							
	Sub Total	10877.90							
	Total						331.25	10877.90	3603304.38

SHRIYA CONSTRUCTION AND CONSULTANCY

12	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16)								
		Cum							
	Reva College Road								
			1	355.00	5.00	0.04	71.00		
	Bellahalli								
	2nd Cross Road		1	138.00	4.00	0.04	22.08		
	BSF STF Layout								
	Cross Road		1	120.00	6.65	0.04	31.92		
	Nirantara layout								
	1st Cross Road		1	220.00	5.00	0.04	44.00		
	2nd Cross Road		1	180.00	5.00	0.04	36.00		
	Dutta Township								
	1st Cross Road		1	115.00	6.00	0.04	27.60		
	2nd Cross Road		1	135.00	6.00	0.04	32.40		
	Basic rate	11531.00							
	Area weightage 10%	1153.10							
	Sub Total	12684.10							
	Total						265.00	12684.10	3361286.50
13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)								
		Sqm							
	Reva College Road								
			2	355.00	0.10		71.00		
	Bellahalli								
	2nd Cross Road		2	138.00	0.10		27.60		
	BSF STF Layout								
	Cross Road		2	120.00	0.10		24.00		
	Nirantara layout								
	1st Cross Road		2	220.00	0.10		44.00		
	2nd Cross Road		2	180.00	0.10		36.00		
	Dutta Township								
	1st Cross Road		2	115.00	0.10		23.00		
	2nd Cross Road		2	135.00	0.10		27.00		
	Basic rate	478.00							
	Area weightage 10%	47.80							
	Sub Total	525.80							
	Total						252.60	525.80	132817.08
14	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 (M 5.0) Using 40 mm nominal size graded crushed coarse aggregates(Specification No. 2.1.1 PWD SR 2021-22 Vol -I P.No.50)								

SHRIYA CONSTRUCTION AND CONSULTANCY

		Cum							
	Kattigenahalli								
	Cross Road 1		1	74.00	1.50	0.15	16.65		
	Cross Road 2		1	96.00	1.50	0.15	21.60		
	Cross Road 3		1	157.00	1.50	0.15	35.33		
	Cross Road 4		1	154.00	1.50	0.15	34.65		
	Cross Road 5		1	136.00	1.50	0.15	30.60		
	Basic rate	4976.00							
	Area weightage 10%	497.60							
	Sub Total	5473.60							
	Total						138.83	5473.60	759872.52
15	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement.or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. (PWD SR 2021-22 Vol -III Pg 138 item no 20.29)								
		Cum							
	Kattigenahalli								
	Cross Road 1		1	74.00	3.50	0.15	38.85		
	Cross Road 2		1	96.00	3.50	0.15	50.40		
	Cross Road 3		1	157.00	3.50	0.15	82.43		
	Cross Road 4		1	154.00	3.50	0.15	80.85		
	Cross Road 5		1	136.00	3.50	0.15	71.40		
	Basic rate	6837.00							
	Area weightage 10%	683.70							
	Sub Total	7520.70							
	Total						323.93	7520.70	2436142.75
16	**Cost of Haulage** Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)								
	Qty frm Item No-1	t.Km		246.22	1.28		315.16		
	Qty frm Item No-7			1692.29	1.28		2166.13		
	Basic rate	12.00					2481.29	105.60	262025.00
	8Km 12*8	96.00							
	Area Weightage 10%	9.60							
	Total	105.60							

	Sub-Total for CSR 2018-19	17499079.170
	GST Charges (12% of estimated cost)	2099890.00
	DPR Charges (1% of estimated cost)	200000.00
	Project management And Consultancy Charges(1% of estimated cost)	200000.00
	Miscellenious and rounding	1031.00
	Grand Total Amount Rs.	20000000.00
	(Rupees Two Crores Only)	

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The estimate is based on C.S.R of 2018-2019, PWD 2021-2022 Issue Rates and Data Rates.and Approved Data Rate of Bangalore
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other Programs or Grants

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Byatarayanapura Sub-Division
B.B.M.P

Executive Engineer
Byatarayanapura - Division
B.B.M.P

SHRIYA CONSTRUCTION AND CONSULTANCY

ESTIMATE

Project: IMPROVEMENTS TO ROADS AND DRAINS AT KAVERI NAGARA AND SHARADI SAI NAGARA AND SURROUNDING AREA IN WARD NO. 06 BYATARAYANAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name Of Work : IMPROVEMENTS TO ROADS AND DRAINS AT KAVERI NAGARA AND SHARADI SAI NAGARA AND SURROUNDING AREA IN WARD NO. 06 BYATARAYANAPURA SUB DIVISION

Est Cost: =200.00 Lakhs

Estimate : E

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
	Drain Desilting	Cum							
	Kaveri Layout								
	1st Cross Road		1	195.00	0.50	0.35	34.13		
	2nd Cross Road		1	195.00	0.50	0.35	34.13		
	3rd Cross Road LHS Road		1	190.00	0.50	0.35	33.25		
	3rd Cross Road RHS Road		1	190.00	0.50	0.35	33.25		
	End Portion		1	25.00	0.50	0.35	4.38		
	Shiridi Sai Nagara								
	1st Cross Road		2	185.00	0.50	0.35	64.75		
	2nd Cross Road		2	445.00	0.50	0.35	155.75		
	Approach Road to 3rd Cross Road		2	34.00	0.50	0.40	13.60		
	3rd Cross Road		2	445.00	0.50	0.35	155.75		
	New Drain								
	Cross Road		1	16.20	0.75	0.75	9.11		
	Basic rate	186.00							
	Loading and Unloading	118.00							
	Sub Total	304.00							
	Area weightage 10%	30.40							
	Sub Total	**334.40**							
	Total						538.09	334.40	179937.00
2	Removing and Resetting of Footpath Slab and pointing in C.M (1:3) (Approved Rate)								
		Sqm							
	Kaveri Layout								
	1st Cross Road		1	195.00	0.75		146.25		
	2nd Cross Road		1	195.00	0.75		146.25		
	3rd Cross Road LHS Road		1	190.00	0.75		142.50		
	3rd Cross Road RHS Road		1	190.00	0.75		142.50		
	End Portion		1	25.00	0.75		18.75		
	Shiridi Sai Nagara								
	1st Cross Road		2	185.00	0.75		277.50		
	2nd Cross Road		2	445.00	0.75		667.50		
	Approach Road to 3rd Cross Road		2	34.00	0.75		51.00		
	3rd Cross Road		2	445.00	0.75		667.50		
	Consider 85%						1920.79		
							1920.79	235.00	451386.00
	Approved Rate	235.00							

SHRIYA CONSTRUCTION AND CONSULTANCY

3	Providing B S slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete. as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges)								
		Sqm							
	1st Cross Road		1	195.00	0.75		146.25		
	2nd Cross Road		1	195.00	0.75		146.25		
	3rd Cross Road LHS Road		1	190.00	0.75		142.50		
	3rd Cross Road RHS Road		1	190.00	0.75		142.50		
	End Portion		1	25.00	0.75		18.75		
	Shiridi Sai Nagara								
	1st Cross Road		2	185.00	0.75		277.50		
	2nd Cross Road		2	445.00	0.75		667.50		
	Approach Road to 3rd Cross Road		2	34.00	0.75		51.00		
	3rd Cross Road		2	445.00	0.75		667.50		
	Consider 13%						300.55		
	Data rate	837.00							
	Total						300.55	837.00	251558.00
4	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	For Drain	Cum							
	New Drain								
	Cross Road		1	16.20	0.75	0.15	1.82		
	Basic rate	5752.00							
	Area weightage 10%	575.20							
	Sub Total	**6327.20**							
	Total						1.82	6327.20	11531.32
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)								
	Drain								
	Bottom Raft	**Cum**							
	New Drain								
	Cross Road		1	16.20	0.75	0.15	1.82		
	Side Walls								
	New Drain								
	Cross Road		2	16.20	0.15	0.45	2.19		
					Sub Total		**4.01**		
	Basic rate	6256.00							
	Add 5% for Shuttering	312.80							
		6568.80							
	Area weightage 10%	656.88							
	Sub Total	**7225.68**							
	Total						4.01	7225.68	28971.36
6	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)								
	For Drain	Cum					4.01		

SHRIYA CONSTRUCTION AND CONSULTANCY

		kg	Steel assumed 60Kg/Cum of Concrete				240.57		
		tonne					0.24		
	Basic rate	10332.90							
	Area weightage 10%	10332.90							
	Sub Total	**113661.90**							
	Total						0.24	113661.90	27343.64
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick made of M25 with OPC cement @ 340kgs per Cum with 20 mm and Down size graded granite metal coarse agg @.70 mixed including providing and removing centering, shuttering, shuttering propping etc. for edges of slabs with TMT (Fe500) COM, labor, labor, all Lead and Lift, HOM. Curing, including Cost of reinf. Etc, Complete as directed by the Engineer In charge of Work (Data Rate)								
	New Drain Cover Slab	Sqm							
	New Drain								
	Cross Road		1	16.20	0.75		12.15		
	Data rate	2072.00							
	Total						12.15	2072.00	25174.80
8	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)								
		Cum							
	Kaveri Layout								
	1st Cross Road		1	190.00	5.00	0.23	218.50		
	2nd Cross Road		1	190.00	5.00	0.23	218.50		
	3rd Cross Road LHS Road		1	160.00	5.00	0.23	184.00		
	3rd Cross Road RHS Road		1	160.00	5.00	0.23	184.00		
	End Portion & Front		2	25.00	5.00	0.20	50.00		
	Approach Road to 3rd Cross Road		1	30.00	5.00	0.20	30.00		
	Shiridi Sai Nagara								
	1st Cross Road		1	190.00	6.00	0.23	262.20		
	1st Cross Road Cross		1	210.00	6.00	0.23	289.80		
	3rd Cross Road		1	445.00	6.00	0.23	614.10		
	Basic rate	186.00							
	Loading and Unloading	74.00							
	Sub Total	260.00							
	Area weightage 10%	26.00							
	Sub Total	**286.00**					**2051.10**	**286.00**	**586614.60**
9	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A))								
		Cum							
	Kaveri Layout								
	1st Cross Road		1	190.00	5.00	0.23	218.50		
	2nd Cross Road		1	190.00	5.00	0.23	218.50		
	3rd Cross Road LHS Road		1	160.00	5.00	0.23	184.00		
	3rd Cross Road RHS Road		1	160.00	5.00	0.23	184.00		
	End Portion & Front		2	25.00	5.00	0.23	57.50		
	Approach Road to 3rd Cross Road		1	30.00	5.00	0.23	34.50		
	Shiridi Sai Nagara								
	1st Cross Road		1	190.00	6.00	0.23	262.20		
	1st Cross Road Cross		1	210.00	6.00	0.23	289.80		

SHRIYA CONSTRUCTION AND CONSULTANCY

	3rd Cross Road		1	445.00	6.00	0.23	614.10		
	Basic rate	2394.00							
	Area weightage 10%	239.40							
	Sub Total	**2633.40**							
	Total						2063.10	2633.40	5432967.54
10	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))								
		Sqm							
	Kaveri Layout								
	1st Cross Road		1	190.00	5.00		950.00		
	2nd Cross Road		1	190.00	5.00		950.00		
	3rd Cross Road LHS Road		1	160.00	5.00		800.00		
	3rd Cross Road RHS Road		1	160.00	5.00		800.00		
	End Portion & Front		2	25.00	5.00		250.00		
	Approach Road to 3rd Cross Road		1	30.00	5.00		150.00		
	Shiridi Sai Nagara								
	1st Cross Road		1	190.00	6.00		1140.00		
	1st Cross Road Cross		1	210.00	6.00		1260.00		
	3rd Cross Road		1	445.00	6.00		2670.00		
	Basic rate	44.00							
	Area weightage 10%	4.40							
	Sub Total	**48.40**							
	Total						8970.00	48.40	434148.00
11	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-29,I No-5.3(i) of PWD SR 2021-22).								
		Sqm							
	Kaveri Layout								
	1st Cross Road		1	190.00	5.00		950.00		
	2nd Cross Road		1	190.00	5.00		950.00		
	3rd Cross Road LHS Road		1	160.00	5.00		800.00		
	3rd Cross Road RHS Road		1	160.00	5.00		800.00		
	End Portion & Front		2	25.00	5.00		250.00		
	Approach Road to 3rd Cross Road		1	30.00	5.00		150.00		
	Shiridi Sai Nagara								
	1st Cross Road		1	190.00	6.00		1140.00		
	1st Cross Road Cross		1	210.00	6.00		1260.00		
	3rd Cross Road		1	445.00	6.00		2670.00		
	Basic rate	12.00							
	Area weightage 10%	1.20							
	Sub Total	13.20							
	Total						8970.00	13.20	118404.00
12	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))								
		Cum							
	Kaveri Layout								
	1st Cross Road		1	190.00	5.00	0.05	47.50		
	2nd Cross Road		1	190.00	5.00	0.05	47.50		
	3rd Cross Road LHS Road		1	160.00	5.00	0.05	40.00		
	3rd Cross Road RHS Road		1	160.00	5.00	0.05	40.00		
	End Portion & Front		2	25.00	5.00	0.05	12.50		

SHRIYA CONSTRUCTION AND CONSULTANCY

Approach Road to 3rd Cross Road		1	30.00	5.00	0.05	7.50		
Shiridi Sai Nagara								
1st Cross Road		1	190.00	6.00	0.05	57.00		
1st Cross Road Cross		1	210.00	6.00	0.05	63.00		
3rd Cross Road		1	445.00	6.00	0.05	133.50		
Basic rate	9889.00							
Area weightage 10%	988.90							
Sub Total	**10877.90**							
Total						448.50	10877.90	4878738.15

13 Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16)

	Cum							
Kaveri Layout								
1st Cross Road		1	190.00	5.00	0.04	38.00		
2nd Cross Road		1	190.00	5.00	0.04	38.00		
3rd Cross Road LHS Road		1	160.00	5.00	0.04	32.00		
3rd Cross Road RHS Road		1	160.00	5.00	0.04	32.00		
End Portion & Front		2	25.00	5.00	0.04	10.00		
Approach Road to 3rd Cross Road		1	30.00	5.00	0.04	6.00		
Shiridi Sai Nagara								
1st Cross Road		1	190.00	6.00	0.04	45.60		
1st Cross Road Cross		1	210.00	6.00	0.04	50.40		
3rd Cross Road		1	445.00	6.00	0.04	106.80		
Basic rate	11531.00							
Area weightage 10%	1153.10							
Sub Total	**12684.10**							
Total						358.80	12684.10	4551055.08

14 Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)

	Sqm							
Kaveri Layout								
1st Cross Road		2	190.00	0.10		38.00		
2nd Cross Road		2	190.00	0.10		38.00		
3rd Cross Road LHS Road		2	160.00	0.10		32.00		
3rd Cross Road RHS Road		2	160.00	0.10		32.00		
End Portion & Front		2	25.00	0.10		5.00		
Approach Road to 3rd Cross Road		4	30.00	0.10		12.00		
Shiridi Sai Nagara								
1st Cross Road		2	190.00	0.10		38.00		
1st Cross Road Cross		2	210.00	0.10		42.00		
3rd Cross Road		2	445.00	0.10		89.00		
Basic rate	478.00							
Area weightage 10%	47.80							
Sub Total	**525.80**							
Total						326.00	525.80	171410.80

SHRIYA CONSTRUCTION AND CONSULTANCY

15	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)								
	Qty frm Item No-1	t.Km		538.09	1.28		688.75		
	Qty frm Item No-9			2051.10	1.28		2625.41		
	Basic rate	12.00					3314.16	105.60	349976.00
	8Km 12*8	96.00							
	Area Weightage 10%	9.60							
	Total	105.60							

SHRIYA CONSTRUCTION AND CONSULTANCY

Grand Total	17499216.30
GST Charges (12% of estimated cost)	2099906.00
DPR Charges (1% of estimated cost)	200000.00
Project management And Consultancy Charges(1% of estimated cost)	200000.00
Miscellenious and rounding	878.00
Grand Total Amount Rs.	20000000.00
(Rupees Two Crores Only)	

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The estimate is based on C.S.R of 2018-2019, PWD 2021-2022 Issue Rates and Data Rates.and Approved Data Rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other Programs or Grants

Assistant Engineer
Ward No.06

Assistant Executive Engineer
Byatarayanapura Sub-Division
B.B.M.P

Executive Engineer
Byatarayanapura - Division
B.B.M.P

SHRIYA CONSTRUCTION AND CONSULTANCY

COMBINED ESTIMATE

Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no 6 and Surrounding areas in Byatarayanapura Division. (Package-01)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE, BYATARAYAANAPURA DIVISION

Project: Improvements to Roads and Drains at MCEHS Layout 1st and 2nd Phase, Sampigehalli, Chokkanahalli, Balaji Krupa Layout, Basavalingappa Nagara, Central Excise Layout, Bellahalli and Kattigenahalli in Ward no 05 and Kaveri Nagara and Shiridi Sai Nagara in Ward no 6 and Surrounding areas in Byatarayanapura Division. (Package-01)

Project Cost 1000.00 Lakhs

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
		Cum							
	New Drain								
	MCEHS Layout		1	60.90	1.10	1.00	66.99		
	New Culvert								
	MCEHS Layout								
	Culvert		2	7.00	1.40	1.00	19.60		
	New Drain								
	Chokkanahalli		2	61.80	1.10	1.00	135.96		
	New Culvert								
	Chokkanahalli								
	Culvert		3	8.00	1.40	1.00	33.60		
	Drain Desilting	Cum							
	Basavalingappa Layout								
	5th Cross Road		2	170.40	0.50	0.40	68.16		
	4th Cross Road		2	175.20	0.50	0.40	70.08		
	Cross Road to 5th Cross Road		1	130.50	0.50	0.40	26.10		
	Cross Road to 4th Cross Road		1	100.00	0.50	0.40	20.00		
	Cross Road to Al Auds School		2	95.00	0.50	0.40	38.00		
	3rd Cross Road		2	80.00	0.50	0.40	32.00		
	Main Road		2	200.00	0.50	0.40	80.00		
	1st Cross Road LHS		2	80.00	0.50	0.40	32.00		
	1st Cross Road RHS		2	75.00	0.50	0.40	30.00		
	2nd Cross Road LHS		2	70.00	0.50	0.40	28.00		
	2nd Cross Road RHS		2	68.00	0.50	0.40	27.20		
	3rd A Cross Road LHS		2	70.00	0.50	0.35	24.50		
	Parallel Road to 1st Cross Road		2	130.00	0.50	0.40	52.00		
	Cross Road 1		1	23.00	0.50	0.40	4.60		
	Cross Road 2		1	24.00	0.50	0.40	4.80		
	Cross Road 3		1	26.00	0.50	0.40	5.20		
	Cross Road 4		1	24.00	0.50	0.40	4.80		
	Cross Road 5		1	25.00	0.50	0.40	5.00		
	End Road RHS		1	27.50	0.50	0.40	5.50		
	New Drain								
	Basavalingappa Layout		2	55.00	1.10	1.00	121.00		
	Main Road		2	26.30	1.10	1.00	57.86		
	New Culvert	Cum							

SHRIYA CONSTRUCTION AND CONSULTANCY

	Basavalingappa Layout								
	Culvert		5	6.00	1.40	1.00	42.00		
	New Drain								
	Kattigenahalli		2	94.10	1.10	1.00	207.02		
	New Culvert	Cum							
	Kattigenahalli								
	2nd Cross Road		4	7.00	1.40	1.00	39.20		
	Kaveri Layout								
	1st Cross Road		1	195.00	0.50	0.35	34.13		
	2nd Cross Road		1	195.00	0.50	0.35	34.13		
	3rd Cross Road LHS Road		1	190.00	0.50	0.35	33.25		
	3rd Cross Road RHS Road		1	190.00	0.50	0.35	33.25		
	End Portion		1	25.00	0.50	0.35	4.38		
	Shiridi Sai Nagara								
	1st Cross Road		2	185.00	0.50	0.35	64.75		
	2nd Cross Road		2	445.00	0.50	0.35	155.75		
	Approach Road to 3rd Cross Road		2	34.00	0.50	0.40	13.60		
	3rd Cross Road		2	445.00	0.50	0.35	155.75		
	New Drain								
	Cross Road		1	16.20	0.75	0.75	9.11		
	Basic rate	186.00							
	Loading and Unloading	118.00							
	Sub Total	304.00							
	Area weightage 10%	30.40							
	Sub Total	**334.40**							
	Total						**1819.26**	**334.40**	608360.00
2	Removing and Resetting of Footpath Slab and pointing in C.M (1:3) (Approved Rate)								
		Sqm							
	Kaveri Layout								
	1st Cross Road		1	195.00	0.75		146.25		
	2nd Cross Road		1	195.00	0.75		146.25		
	3rd Cross Road LHS Road		1	190.00	0.75		142.50		
	3rd Cross Road RHS Road		1	190.00	0.75		142.50		
	End Portion		1	25.00	0.75		18.75		
	Shiridi Sai Nagara								
	1st Cross Road		2	185.00	0.75		277.50		
	2nd Cross Road		2	445.00	0.75		667.50		
	Approach Road to 3rd Cross Road		2	34.00	0.75		51.00		
	3rd Cross Road		2	445.00	0.75		667.50		
	Consider 85%						1920.79		
							1920.79	235.00	451386.00
	Approved Rate	235.00							
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(PWD SR 2018-2019 P.No.27,I.No.5.31.1)								
		Sqm							
	Provide 30% new BS Slab	From item no.01					1221.13		
	Sub Total						1221.13		

1st Cross Road		1	195.00	0.75		146.25		
2nd Cross Road		1	195.00	0.75		146.25		
3rd Cross Road LHS Road		1	190.00	0.75		142.50		
3rd Cross Road RHS Road		1	190.00	0.75		142.50		
End Portion		1	25.00	0.75		18.75		
Shiridi Sai Nagara								
1st Cross Road		2	185.00	0.75		277.50		
2nd Cross Road		2	445.00	0.75		667.50		
Approach Road to 3rd Cross Road		2	34.00	0.75		51.00		
3rd Cross Road		2	445.00	0.75		667.50		
Consider 13%						300.55		
Data Rate	837.00							
Total						1358.86	837.00	1137367.00
4	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
New Drain								
MCEHS Layout		1	60.90	0.90	0.15	8.22		
New Culvert	Cum							
MCEHS Layout								
Culvert		2	7.00	0.90	0.15	1.89		
New Drain								
Chokkanahalli		2	61.80	0.90	0.15	16.69		
New Culvert	Cum							
Chokkanahalli								
Culvert		3	8.00	1.20	0.15	4.32		
New Drain	Cum							
Basavalingappa Layout Cross Road		2	55.00	0.90	0.15	14.85		
Main Road		2	26.30	0.90	0.15	7.10		
New Culvert	Cum							
Basavalingappa Layout								
Culvert		5	6.00	1.20	0.15	5.40		
For Drain	Cum							
New Drain								
Cross Road		2	94.10	1.00	0.15	28.23		
New Culvert	Cum							
Kattigenahalli								
2nd Cross Road		4	7.00	1.20	0.15	5.04		
For Drain	Cum							
New Drain								
Cross Road		1	16.20	0.75	0.15	1.82		
Basic rate	5752.00							
Area weightage 10%	575.20							
Sub Total	6327.20							

SHRIYA CONSTRUCTION AND CONSULTANCY

Area weightage 10%	575.20							
Sub Total	6327.20							
Total						93.56	6327.20	591980.00

5

Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)

Drain								
Bottom Raft								
New Drain								
MCEHS Layout		1	60.90	0.90	0.15	8.22		
Side Walls								
MCEHS Layout		2	60.90	0.15	0.60	10.96		
				Sub Total		19.18		
New Culvert Raft								
MCEHS Layout	Cum							
Culvert		2	7.00	0.60	0.20	1.68		
Side Walls								
MCEHS Layout								
Culvert		4	7.00	0.20	0.60	3.36		
				Sub Total		5.04		
Drain								
Bottom Raft								
New Drain								
Chokkanahalli		2	61.80	0.90	0.15	16.69		
Side Walls								
Basavalingappa Layout		4	61.80	0.15	0.60	22.25		
				Sub Total		38.93		
New Culvert Raft								
New Culvert	Cum							
Culvert		3	8.00	1.20	0.20	5.76		
Side Walls								
Basavalingappa Layout								
Culvert		6	8.00	0.20	0.60	5.76		
				Sub Total		11.52		
Drain								
Bottom Raft								
New Drain	Cum							
Basavalingappa Layout		2	55.00	0.90	0.15	14.85		
Main Road		2	26.30	0.90	0.15	7.10		
Side Walls								
Basavalingappa Layout		4	55.00	0.15	0.60	19.80		
Main Road		4	26.30	0.15	0.60	9.47		

				Sub Total		**51.22**		
New Culvert Raft								
New Culvert	**Cum**							
Basavalingappa Layout								
Culvert		5	6.00	1.20	0.20	7.20		
Side Walls								
Basavalingappa Layout								
Culvert		10	6.00	0.20	0.60	7.20		
				Sub Total		**14.40**		
Kattigenahalli								
Bottom Raft	**Cum**							
New Drain								
Cross Road		2	94.10	0.90	0.15	25.41		
Side Walls								
New Drain								
Cross Road		4	94.10	0.20	0.60	45.17		
				Sub Total		**70.58**		
New Culvert	**Cum**							
Kattigenahalli		4	7.00	1.20	0.20	6.72		
Side Walls								
Kattigenahalli		8	7.00	0.20	0.60	6.72		
				Sub Total		**13.44**		
Drain								
Bottom Raft	**Cum**							
New Drain								
Cross Road		1	16.20	0.75	0.15	1.82		
Side Walls								
New Drain								
Cross Road		2	16.20	0.15	0.45	2.19		
				Sub Total		**4.01**		
Basic rate	6256.00							
Add 5% for Shuttering	312.80							
	6568.80							
Area weightage 10%	656.88							
Sub Total	7225.68							
Total						228.32	7225.68	1649775.00
6	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)							
For Drain	**Cum**					19.18		
	kg	Steel assumed 60Kg/Cum of Concrete				1151.01		
	tonne					1.15		
For Culvert	**Cum**					5.04		
	kg	Steel assumed 90 Kg/Cum of Concrete				453.60		
	tonne					0.45		
For Drain	**Cum**					38.93		

SHRIYA CONSTRUCTION AND CONSULTANCY

	kg	Steel assumed 60Kg/Cum of Concrete				2336.04		
	tonne					2.34		
For Culvert	Cum					11.52		
	kg	Steel assumed 90 Kg/Cum of Concrete				1036.80		
	tonne					1.04		
For Drain	Cum					51.22		
	kg	Steel assumed 60Kg/Cum of Concrete				3073.14		
	tonne					3.07		
For Culvert	Cum					14.40		
	kg	Steel assumed 90 Kg/Cum of Concrete				1296.00		
	tonne					1.30		
For Drain	Cum					70.58		
	kg	Steel assumed 60Kg/Cum of Concrete				4234.50		
	tonne					4.23		
For Culvert	Cum					13.44		
	kg	Steel assumed 90 Kg/Cum of Concrete				1209.60		
	tonne					1.21		
For Drain	Cum					4.01		
	kg	Steel assumed 60Kg/Cum of Concrete				240.57		
	tonne					0.24		
Basic rate	103329.00							
Area weightage 10%	10332.90							
Sub Total	113661.90							
Total						15.03	113661.90	1708482.00

7 Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick made of M25 with OPC cement @ 340kgs per Cum with 20 mm and Down size graded granite metal coarse agg @.70 mixed including providing and removing centering, shuttering, shuttering propping etc. for edges of slabs with TMT (Fe500) COM, labor, labor, all Lead and Lift, HOM, Curing, including Cost of reinf. Etc, Complete as directed by the Engineer In charge of Work (Data Rate)

New Drain Cover Slab	Sqm							
New Drain								
MCEHS Layout		1	60.90	0.90		54.81		
New Drain Cover Slab	Sqm							
New Drain								
Chokkanahalli		2	61.80	0.90		111.24		
New Drain Cover Slab	Sqm							
New Drain	Cum							
Basavalingappa Layout		2	55.00	0.90		99.00		
Main Road		2	26.30	0.90		47.34		
New Drain Cover Slab	Sqm							
New Drain								
Cross Road		2	94.10	0.90		169.38		

SHRIYA CONSTRUCTION AND CONSULTANCY

New Drain Cover Slab	Sqm								
New Drain									
Cross Road		1	16.20	0.75		12.15			
Data rate	2072.00								
Total							493.92	2072.00	1023403.00
8	Providing and Fixing pre cast covering Slab 230mm thick made out of CC 1:1.5:3 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge								
Culvert Cover Slab	Sqm								
New Culvert									
MCEHS Layout									
Culvert		2	7.00	1.20		16.80			
New Culvert									
Chokkanahalli									
Culvert		3	8.00	1.20		28.80			
Basavalingappa Layout									
Culvert		5	6.00	1.20		36.00			
Culvert Cover Slab	Sqm								
Kattigenahalli		4	7.00	1.20		33.60			
Data rate	5037.00								
Total							115.20	5037.00	580263.00
9	Removing and refixing stone slabs of drains and pointing in CM (1:3) (PWD SR 2018-2019 P.No-27,I No-5.33)								
	Sqm								
BS Slab of Drain									
Open Drain (Sides & Bottom)	Sqm	Width=Perimeter of Drain in U Shape							
Basavalingappa Layout									
5th Cross Road		2	170.40	1.45		494.16			
4th Cross Road		2	175.20	1.45		508.08			
Cross Road to 5th Cross Road		1	130.50	1.45		189.23			
Cross Road to 4th Cross Road		1	100.00	1.45		145.00			
Cross Road to Al Auds School		2	95.00	1.45		275.50			
3rd Cross Road		2	80.00	1.45		232.00			
Main Road		2	200.00	1.45		580.00			
1st Cross Road LHS		2	80.00	1.45		232.00			
1st Cross Road RHS		2	75.00	1.45		217.50			
2nd Cross Road LHS		2	70.00	1.45		203.00			
2nd Cross Road RHS		2	68.00	1.45		197.20			
3rd A Cross Road LHS		2	70.00	1.45		203.00			
Parallel Road to 1st Cross Road									
		2	130.00	1.45		377.00			
Cross Road 1		1	23.00	1.45		33.35			
Cross Road 2		1	24.00	1.45		34.80			
Cross Road 3		1	26.00	1.45		37.70			
Cross Road 4		1	24.00	1.45		34.80			
Cross Road 5		1	25.00	1.45		36.25			
End Road RHS		1	27.50	1.45		39.88			
				Total		4070.44			
Deduct 30% for Missing/Damaged						1221.13			

SHRIYA CONSTRUCTION AND CONSULTANCY

	Consider 70% Qnty for Removing & Refixing						2849.31		
	Basic rate	105.00							
	Area weightage 6%	6.30							
	Sub Total	111.30							
	Total						2849.31	111.30	317127.98
		Road Works							
10	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)								
		Cum							
	Dwaraka nagar bagalur cross								
	1st Cross Road		1	33.00	3.00	0.25	24.75		
	2nd Cross Road		1	180.00	4.00	0.25	180.00		
	3rd Cross Road		1	250.00	4.50	0.25	281.25		
	Vinayaka nagar bagalur cross								
	Cross Road		1	76.00	5.30	0.23	92.64		
	Bharathi Public School Road								
	1st Road		1	44.00	6.00	0.23	60.72		
	2nd Road		1	98.00	5.00	0.23	112.70		
	3rd Road		1	40.00	4.50	0.23	41.40		
	Shiva temple road								
	L Type road		1	107.00	1.00	0.23	24.61		
	L Type road		1	25.00	1.00	0.23	5.75		
	1st B Cross CC Road		1	105.00	5.00	0.15	78.75		
	Kuvempu Nagar Road Cut Portuin								
	Road		1	370.00	1.20	0.20	88.80		
	MCEHS Layout								
	1st Cross Road		1	125.00	6.20	0.23	178.25		
	2nd Cross Road		1	147.00	6.80	0.23	229.91		
	3rd Cross Road		1	140.00	7.20	0.23	231.84		
	Beside Jakkur Govt. School		1	109.00	1.00	0.23	25.07		
	Behind Jakkur Govt. School		1	375.00	1.00	0.23	86.25		
		Cum							
	Manjunath Layout Road								
	1st Cross Road		1	120.00	6.50	0.23	179.40		
	2nd Cross Road		1	138.00	7.00	0.23	222.18		
	3rd Cross Road		1	130.00	7.50	0.23	224.25		
	Kalidasa layout								
	1st Road		1	30.00	5.00	0.23	34.50		
	2nd Road		1	110.00	6.20	0.23	156.86		
	Bhagat singh enclave								
	RHS Road 1		1	100.00	6.00	0.23	138.00		

SHRIYA CONSTRUCTION AND CONSULTANCY

RHS Road 2		1	55.00	6.00	0.23	75.90		
LHS Road 1		1	80.00	6.00	0.23	110.40		
Royal Enclave								
~~Near Hogilu Prokarthi~~ Layout								
1st Cross Road		1	230.00	6.00	0.23	317.40		
2nd Cross Raod		1	60.00	6.00	0.23	82.80		
Cross to 1st and 2nd Cross Road		1	140.00	6.00	0.23	193.20		
~~Sampigehalli Layout~~ 3RD C/S Road.		1	200.00	6.40	0.23	294.40		
	Cum							
Basavalingappa Layout								
New Asphalt Road								
2nd Cross Road LHS		1	80.00	5.20	0.23	95.68		
2nd Cross Road RHS		1	55.00	5.20	0.23	65.78		
3rd Cross Road		1	80.00	5.20	0.23	95.68		
3rd A Cross Road		1	70.00	5.20	0.23	83.72		
New CC Road								
5th Cross to Last Road		1	70.00	3.7	0.3	77.70		
Cross Road RHS		1	70.00	3.5	0.3	73.50		
Asphalt								
5th Cross Road		1	170.40	5.20	0.20	177.22		
4th Cross Road		1	175.20	5.20	0.20	182.21		
Main Road		1	200.00	8.00	0.20	320.00		
1st Cross Road LHS		1	80.00	5.20	0.20	83.20		
1st Cross Road RHS		1	75.00	5.20	0.20	78.00		
CC Road Resurfacing								
Cross Road to 5th Cross Road		1	130.50	1.50	0.20	39.15		
Cross Road to 4th Cross Road		1	100.00	1.50	0.20	30.00		
Cross Road to Al Auds School		1	95.00	1.50	0.20	28.50		
Parallel Road to 1st Cross Road		1	130.00	1.50	0.20	39.00		
Cross Road 1		1	23.00	1.50	0.20	6.90		
Cross Road 2		1	24.00	1.50	0.20	7.20		
Cross Road 3		1	26.00	1.50	0.20	7.80		
Cross Road 4		1	24.00	1.50	0.20	7.20		
Cross Road 5		1	25.00	1.50	0.20	7.50		
End Road RHS		1	27.50	1.50	0.20	8.25		
Kattigenahalli								
Cross Road 1		1	74.00	1.50	0.20	22.20		
Cross Road 2		1	96.00	1.50	0.20	28.80		
Cross Road 3		1	157.00	1.50	0.20	47.10		
Cross Road 4		1	154.00	1.50	0.20	46.20		
Cross Road 5		1	136.00	1.50	0.20	40.80		
Reva College Road								
		1	355.00	5.00	0.23	408.25		
Bellahalli								
2nd Cross Road		1	138.00	4.00	0.20	110.40		
BSF STF Layout								
Cross Road		1	120.00	6.65	0.23	183.54		
Niranthara layout								
1st Cross Road		1	220.00	5.00	0.23	253.00		
2nd Cross Road		1	180.00	5.00	0.23	207.00		
Dutta Township								
1st Cross Road		1	115.00	6.00	0.23	158.70		
2nd Cross Road		1	135.00	6.00	0.23	186.30		

SHRIYA CONSTRUCTION AND CONSULTANCY

Kaveri Layout								
1st Cross Road		1	190.00	5.00	0.23	218.50		
2nd Cross Road		1	190.00	5.00	0.23	218.50		
3rd Cross Road LHS Road		1	160.00	5.00	0.23	184.00		
3rd Cross Road RHS Road		1	160.00	5.00	0.23	184.00		
End Portion & Front		2	25.00	5.00	0.20	50.00		
Approach Road to 3rd Cross Road		1	30.00	5.00	0.20	30.00		
Shiridi Sai Nagara								
1st Cross Road		1	190.00	6.00	0.23	262.20		
1st Cross Road Cross		1	210.00	6.00	0.23	289.80		
3rd Cross Road		1	445.00	6.00	0.23	614.10		
Basic rate	186.00							
Loading and Unloading	74.00							
Sub Total	260.00							
Area weightage 10%	26.00							
Sub Total	286.00							
Total						9029.56	286.00	2582453.02

11 Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A))

	Cum							
Vinayaka nagar bagalur cross								
Cross Road		1	76.00	5.30	0.23	92.64		
Bharathi Public School Road								
1st Road		1	44.00	6.00	0.23	60.72		
2nd Road		1	98.00	5.00	0.23	112.70		
3rd Road			40.00	4.50	0.23	41.40		
Shiva temple road								
L Type road		1	107.00	1.00	0.23	24.61		
L Type road		1	25.00	1.00	0.23	5.75		
1st B Cross CC Road		1	105.00	5.00	0.15	78.75		
Kuvempu Nagar								
Road		1	370.00	1.20	0.15	66.60		
MCEHS Layout								
1st Cross Road		1	125.00	6.20	0.23	178.25		
2nd Cross Road		1	147.00	6.80	0.23	229.91		
3rd Cross Road		1	140.00	7.20	0.23	231.84		
Beside Jakkur Govt. School		1	109.00	1.00	0.23	25.07		
Behind Jakkur Govt. School		1	375.00	1.00	0.23	86.25		
	Cum							
Manjunath Layout Road								
1st Cross Road		1	120.00	6.50	0.23	179.40		
2nd Cross Road		1	138.00	7.00	0.23	222.18		
3rd Cross Road		1	130.00	7.50	0.23	224.25		
Kalidasa layout								
1st Road		1	30.00	5.00	0.23	34.50		

SHRIYA CONSTRUCTION AND CONSULTANCY

2nd Road		1	110.00	6.20	0.23	156.86		
Bhagat singh enclave								
RHS Road		1	100.00	6.00	0.23	138.00		
RHS Road		1	55.00	6.00	0.23	75.90		
LHS Road		1	80.00	6.00	0.23	110.40		
Royal Enclave								
~~Near Kapila Prakasthi~~ Layout								
1st Cross Road		1	230.00	6.00	0.23	317.40		
2nd Cross Raod		1	60.00	6.00	0.23	82.80		
Cross to 1st and 2nd Cross Road		1	140.00	6.00	0.23	193.20		
~~Sampigehalli Layout~~ 3rd ✓ Road		1	200.00	6.40	0.23	294.40		
New Asphalt Road								
2nd Cross Road LHS		1	80.00	5.20	0.23	95.68		
2nd Cross Road RHS		1	75.00	5.20	0.23	89.70		
3rd Cross Road		1	80.00	5.20	0.23	95.68		
3rd A Cross Road		1	70.00	5.20	0.23	83.72		
Asphalt								
5th Cross Road		1	170.40	5.20	0.15	132.91		
4th Cross Road		1	175.20	5.20	0.15	136.66		
Main Road		1	200.00	8.00	0.15	240.00		
1st Cross Road LHS		1	80.00	5.20	0.15	62.40		
1st Cross Road RHS		1	75.00	5.20	0.15	58.50		
Reva College Road								
		1	355.00	5.00	0.23	408.25		
Bellahalli								
2nd Cross Road		1	138.00	4.00	0.23	126.96		
BSF STF Layout								
Cross Road		1	120.00	6.65	0.23	183.54		
Nirvana layout								
1st Cross Road		1	220.00	5.00	0.23	253.00		
2nd Cross Road		1	180.00	5.00	0.23	207.00		
Dutta Township								
1st Cross Road		1	115.00	6.00	0.23	158.70		
2nd Cross Road		1	135.00	6.00	0.23	186.30		
Kaveri Layout								
1st Cross Road		1	190.00	5.00	0.23	218.50		
2nd Cross Road		1	190.00	5.00	0.23	218.50		
3rd Cross Road LHS Road		1	160.00	5.00	0.23	184.00		
3rd Cross Road RHS Road		1	160.00	5.00	0.23	184.00		
End Portion & Front		2	25.00	5.00	0.23	57.50		
Approach Road to 3rd Cross Road		1	30.00	5.00	0.23	34.50		
Shiridi Sai Nagara								
1st Cross Road		1	190.00	6.00	0.23	262.20		
1st Cross Road Cross		1	210.00	6.00	0.23	289.80		
3rd Cross Road		1	445.00	6.00	0.23	614.10		
Basic rate	2394.00							
Area weightage 10%	239.40							
Sub Total	**2633.40**							
Total						7845.88	2633.40	20661340.39

SHRIYA CONSTRUCTION AND CONSULTANCY

12

Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))

	Sqm							
Vinayaka nagar bagalur cross								
Cross Road		1	76.00	5.30		402.80		
Bharathi Public School Road								
1st Road		1	44.00	6.00		264.00		
2nd Road		1	98.00	5.00		490.00		
3rd Road			40.00	4.50		180.00		
Shiva temple road								
L Type road		1	107.00	1.00		107.00		
L Type road		1	25.00	1.00		25.00		
Kuvempu Nagar								
Road		1	370.00	1.20		444.00		
MCEHS Layout								
1st Cross Road		1	125.00	6.20		775.00		
2nd Cross Road		1	147.00	6.80		999.60		
3rd Cross Road		1	140.00	7.20		1008.00		
Beside Jakkur Govt. School		1	109.00	1.00		109.00		
Behind Jakkur Govt. School		1	375.00	1.00		375.00		
Manjunath Layout Road								
1st Cross Road		1	120.00	6.50		780.00		
2nd Cross Road		1	138.00	7.00		966.00		
3rd Cross Road		1	130.00	7.50		975.00		
Kalidasa layout								
1st Road		1	30.00	5.00		150.00		
2nd Road		1	110.00	6.20		682.00		
Bhagat singh enclave								
RHS Road		1	100.00	6.00		600.00		
RHS Road		1	55.00	6.00		330.00		
LHS Road		1	80.00	6.00		480.00		
Royal Enclave								
~~Near Kogilu Prakruthi~~ **Layout**								
1st Cross Road		1	230.00	6.00		1380.00		
2nd Cross Raod		1	60.00	6.00		360.00		
Cross to 1st and 2nd Cross Road		1	140.00	6.00		840.00		
~~Sampigehalli Layout~~ 3RD C/S Road		1	200.00	6.40		1280.00		
New Asphalt Road								
2nd Cross Road LHS		1	80.00	5.20		416.00		
2nd Cross Road RHS		1	75.00	5.20		390.00		
3rd Cross Road		1	80.00	5.20		416.00		
3rd A Cross Road		1	70.00	5.20		364.00		
5th Cross Road		1	170.40	5.20		886.08		
4th Cross Road		1	175.20	5.20		911.04		
Main Road		1	200.00	8.00		1600.00		

SHRIYA CONSTRUCTION AND CONSULTANCY

1st Cross Road LHS		1	80.00	5.20		416.00		
1st Cross Road RHS		1	75.00	5.20		390.00		
Reva College Road								
		1	355.00	5.00		1775.00		
Bellahalli								
2nd Cross Road		1	138.00	4.00		552.00		
BSF STF Layout								
Cross Road		1	120.00	6.65		798.00		
Nirvana layout								
1st Cross Road		1	220.00	5.00		1100.00		
2nd Cross Road		1	180.00	5.00		900.00		
Dutta Township								
1st Cross Road		1	115.00	6.00		690.00		
2nd Cross Road		1	135.00	6.00		810.00		
Kaveri Layout								
1st Cross Road		1	190.00	5.00		950.00		
2nd Cross Road		1	190.00	5.00		950.00		
3rd Cross Road LHS Road		1	160.00	5.00		800.00		
3rd Cross Road RHS Road		1	160.00	5.00		800.00		
End Portion & Front		2	25.00	5.00		250.00		
Approach Road to 3rd Cross Road		1	30.00	5.00		150.00		
Shiridi Sai Nagara								
1st Cross Road		1	190.00	6.00		1140.00		
1st Cross Road Cross		1	210.00	6.00		1260.00		
3rd Cross Road		1	445.00	6.00		2670.00		
Basic rate	44.00							
Area weightage 10%	4.40							
Sub Total	**48.40**							
Total						35386.52	48.40	1712707.57

13 Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-29,I No 5.3(i) of PWD SR 2021-22).

	Sqm							
Vinayaka nagar bagalur cross								
Cross Road		1	76.00	5.30		402.80		
Bharathi Public School Road								
1st Road		1	44.00	6.00		264.00		
2nd Road		1	98.00	5.00		490.00		
3rd Road			40.00	4.50		180.00		
Shiva temple road								
L Type road		1	107.00	5.20		556.40		
L Type road		1	25.00	6.00		150.00		
Kuvempu Nagar								
Road		1	370.00	6.00		2220.00		
MCEHS Layout								
1st Cross Road		1	125.00	6.20		775.00		
2nd Cross Road		1	147.00	6.80		999.60		
3rd Cross Road		1	140.00	7.20		1008.00		

SHRIYA CONSTRUCTION AND CONSULTANCY

Beside Jakkur Govt. School		1	109.00	6.50		708.50		
Behind Jakkur Govt. School		1	375.00	7.00		2625.00		
Manjunath Layout Road								
1st Cross Road		1	120.00	6.50		780.00		
2nd Cross Road		1	138.00	7.00		966.00		
3rd Cross Road		1	130.00	7.50		975.00		
Kalidasa layout								
1st Road		1	30.00	5.00		150.00		
2nd Road		1	110.00	6.20		682.00		
Bhagat singh enclave								
RHS Road		1	100.00	6.00		600.00		
RHS Road		1	55.00	6.00		330.00		
LHS Road		1	80.00	6.00		480.00		
Royal Enclave								
~~Near Kaggadasapura~~ **Prakruthi Layout**								
1st Cross Road		1	230.00	6.00		1380.00		
2nd Cross Raod		1	60.00	6.00		360.00		
Cross to 1st and 2nd Cross Road		1	140.00	6.00		840.00		
~~Sampigehalli Layout.~~ 3RD Cs Road		1	200.00	6.40		1280.00		
Basavalingappa Layout								
New Asphalt Road								
2nd Cross Road LHS		1	80.00	5.20		416.00		
2nd Cross Road RHS		1	75.00	5.20		390.00		
3rd Cross Road		1	80.00	5.20		416.00		
3rd A Cross Road		1	70.00	5.20		364.00		
5th Cross Road		1	170.40	5.20		886.08		
4th Cross Road		1	175.20	5.20		911.04		
Main Road		1	200.00	8.00		1600.00		
1st Cross Road LHS		1	80.00	5.20		416.00		
1st Cross Road RHS		1	75.00	5.20		390.00		
Reva College Road								
		1	355.00	5.00		1775.00		
Bellahalli								
2nd Cross Road		1	138.00	4.00		552.00		
BSF STF Layout								
Cross Road		1	120.00	6.65		798.00		
Nirvana layout								
1st Cross Road		1	220.00	5.00		1100.00		
2nd Cross Road		1	180.00	5.00		900.00		
Dutta Township								
1st Cross Road		1	115.00	6.00		690.00		
2nd Cross Road		1	135.00	6.00		810.00		
Kaveri Layout								
1st Cross Road		1	190.00	5.00		950.00		
2nd Cross Road		1	190.00	5.00		950.00		
3rd Cross Road LHS Road		1	160.00	5.00		800.00		
3rd Cross Road RHS Road		1	160.00	5.00		800.00		
End Portion & Front		2	25.00	5.00		250.00		
Approach Road to 3rd Cross Road		1	30.00	5.00		150.00		

SHRIYA CONSTRUCTION AND CONSULTANCY

	Shiridi Sai Nagara								
	1st Cross Road		1	190.00	6.00		1140.00		
	1st Cross Road Cross		1	210.00	6.00		1260.00		
	3rd Cross Road		1	445.00	6.00		2670.00		
	Basic rate	12.00							
	Area weightage 10%	1.20							
	Sub Total	13.20							
	Total						40586.42	13.20	535740.74
14	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, ransporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))								
		Cum							
	Vinayaka nagar bagalur cross								
	Cross Road		1	76.00	5.30	0.05	20.14		
	Bharathi Public School Road								
	1st Road		1	44.00	6.00	0.05	13.20		
	2nd Road		1	98.00	5.00	0.05	24.50		
	3rd Road			40.00	4.50	0.05	9.00		
	Shiva temple road								
	L Type road		1	107.00	1.00	0.05	5.35		
	L Type road		1	25.00	1.00	0.05	1.25		
	Kuvempu Nagar								
	Road		1	370.00	1.20	0.05	22.20		
	MCEHS Layout								
	1st Cross Road		1	125.00	6.20	0.05	38.75		
	2nd Cross Road		1	147.00	6.80	0.05	49.98		
	3rd Cross Road		1	140.00	7.20	0.05	50.40		
	Beside Jakkur Govt. School		1	109.00	1.00	0.05	5.45		
	Behind Jakkur Govt. School		1	375.00	1.00	0.05	18.75		
	Manjunath Layout Road								
	1st Cross Road		1	120.00	6.50	0.05	39.00		
	2nd Cross Road		1	138.00	7.00	0.05	48.30		
	3rd Cross Road		1	130.00	7.50	0.05	48.75		
	Kalidasa layout								
	1st Road		1	30.00	5.00	0.05	7.50		
	2nd Road		1	110.00	6.20	0.05	34.10		
	Bhagat singh enclave								
	RHS Road		1	100.00	6.00	0.05	30.00		
	RHS Road		1	55.00	6.00	0.05	16.50		
	LHS Road		1	80.00	6.00	0.05	24.00		
	Royal Enclave								
	~~Near Kogilu~~ Prakruthi Layout								
	1st Cross Road		1	230.00	6.00	0.05	69.00		
	2nd Cross Raod		1	60.00	6.00	0.05	18.00		
	Cross to 1st and 2nd Cross Road		1	140.00	6.00	0.05	42.00		

Sampigehalli Layout 3RD Qs Road		1	200.00	6.40	0.05	64.00		
Basavalingappa Layout								
New Asphalt Road		1	80.00	5.20	0.05	20.80		
2nd Cross Road LHS		1	75.00	5.20	0.05	19.50		
2nd Cross Road RHS		1	80.00	5.20	0.05	20.80		
3rd Cross Road		1	70.00	5.20	0.05	18.20		
3rd A Cross Road								
Asphalt		1	170.40	5.20	0.05	44.30		
5th Cross Road		1	175.20	5.20	0.05	45.55		
4th Cross Road		1	200.00	8.00	0.05	80.00		
Main Road		1	80.00	5.20	0.05	20.80		
1st Cross Road LHS		1	75.00	5.20	0.05	19.50		
1st Cross Road RHS								
Reva College Road		1	355.00	5.00	0.05	88.75		
Bellahalli		1	138.00	4.00	0.05	27.60		
2nd Cross Road								
BSF STF Layout		1	120.00	6.65	0.05	39.90		
Cross Road								
Nirvana layout		1	220.00	5.00	0.05	55.00		
1st Cross Road		1	180.00	5.00	0.05	45.00		
2nd Cross Road								
Dutta Township		1	115.00	6.00	0.05	34.50		
1st Cross Road		1	135.00	6.00	0.05	40.50		
2nd Cross Road								
Kaveri Layout		1	190.00	5.00	0.05	47.50		
1st Cross Road		1	190.00	5.00	0.05	47.50		
2nd Cross Road		1	160.00	5.00	0.05	40.00		
3rd Cross Road LHS Road		1	160.00	5.00	0.05	40.00		
3rd Cross Road RHS Road		2	25.00	5.00	0.05	12.50		
End Portion & Front		1	30.00	5.00	0.05	7.50		
Approach Road to 3rd Cross Road								
Shiridi Sai Nagara		1	190.00	6.00	0.05	57.00		
1st Cross Road		1	210.00	6.00	0.05	63.00		
1st Cross Road Cross		1	445.00	6.00	0.05	133.50		
3rd Cross Road								
Basic rate	9889.00							
Area weightage 10%	988.90							
Sub Total	10877.90							
Total						1769.33	10877.90	19246551.30

15	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16)								
		Cum							
	Vinayaka nagar bagalur cross								
	Cross Road		1	76.00	5.30	0.04	16.11		
	Bharathi Public School Road								
	1st Road		1	44.00	6.00	0.04	10.56		

SHRIYA CONSTRUCTION AND CONSULTANCY

2nd Road		1	98.00	5.00	0.04	19.60		
3rd Road			40.00	4.50	0.04	7.20		
Shiva temple road								
L Type road		1	107.00	5.20	0.04	22.26		
L Type road		1	25.00	6.00	0.04	6.00		
Kuvempu Nagar								
Road		1	370.00	6.00	0.04	88.80		
MCEHS Layout								
1st Cross Road		1	125.00	6.20	0.04	31.00		
2nd Cross Road		1	147.00	6.80	0.04	39.98		
3rd Cross Road		1	140.00	7.20	0.04	40.32		
Beside Jakkur Govt. School		1	109.00	6.50	0.05	35.43		
Behind Jakkur Govt. School		1	375.00	7.00	0.05	131.25		
Manjunath Layout Road								
1st Cross Road		1	120.00	6.50	0.04	31.20		
2nd Cross Road		1	138.00	7.00	0.04	38.64		
3rd Cross Road		1	130.00	7.50	0.04	39.00		
Kalidasa layout								
1st Road		1	30.00	5.00	0.04	6.00		
2nd Road		1	110.00	6.20	0.04	27.28		
Bhagat singh enclave								
RHS Road		1	100.00	6.00	0.04	24.00		
RHS Road		1	55.00	6.00	0.04	13.20		
LHS Road		1	80.00	6.00	0.04	19.20		
Royal Enclave								
~~Near Cauvery Prakash~~ Layout								
1st Cross Road		1	230.00	6.00	0.04	55.20		
2nd Cross Raod		1	60.00	6.00	0.04	14.40		
Cross to 1st and 2nd Cross Road		1	140.00	6.00	0.04	33.60		
~~Sampigehalli Layout~~ 3RD Cts Road		1	200.00	6.40	0.04	51.20		
Basavalingappa Layout								
New Asphalt Road								
2nd Cross Road LHS		1	80.00	5.20	0.04	16.64		
2nd Cross Road RHS		1	75.00	5.20	0.04	15.60		
3rd Cross Road		1	80.00	5.20	0.04	16.64		
3rd A Cross Road		1	70.00	5.20	0.04	14.56		
Asphalt Resurfacing, road Cut Portion								
5th Cross Road		1	170.40	5.20	0.04	35.44		
4th Cross Road		1	175.20	5.20	0.04	36.44		
Main Road		1	200.00	8.00	0.04	64.00		
1st Cross Road LHS		1	80.00	5.20	0.04	16.64		
1st Cross Road RHS		1	75.00	5.20	0.04	15.60		
Reva College Road								
		1	355.00	5.00	0.04	71.00		
Bellahalli								
2nd Cross Road		1	138.00	4.00	0.04	22.08		
BSF STF Layout								
Cross Road		1	120.00	6.65	0.04	31.92		

SHRIYA CONSTRUCTION AND CONSULTANCY

Nirvana layout								
1st Cross Road		1	220.00	5.00	0.04	44.00		
2nd Cross Road		1	180.00	5.00	0.04	36.00		
Dutta Township								
1st Cross Road		1	115.00	6.00	0.04	27.60		
2nd Cross Road		1	135.00	6.00	0.04	32.40		
Kaveri Layout								
1st Cross Road		1	190.00	5.00	0.04	38.00		
2nd Cross Road		1	190.00	5.00	0.04	38.00		
3rd Cross Road LHS Road		1	160.00	5.00	0.04	32.00		
3rd Cross Road RHS Road		1	160.00	5.00	0.04	32.00		
End Portion & Front		2	25.00	5.00	0.04	10.00		
Approach Road to 3rd Cross Road		1	30.00	5.00	0.04	6.00		
Shiridi Sai Nagara								
1st Cross Road		1	190.00	6.00	0.04	45.60		
1st Cross Road Cross		1	210.00	6.00	0.04	50.40		
3rd Cross Road		1	445.00	6.00	0.04	106.80		
Basic rate	11531.00							
Area weightage 10%	1153.10							
Sub Total	12684.10							
Total						1656.79	12684.10	21014912.87

16 Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)

	Sqm							
Vinayaka nagar bagalur cross								
Cross Road		2	76.00	0.10		15.20		
Bharathi Public School Road								
1st Road		2	44.00	0.10		8.80		
2nd Road		2	98.00	0.10		19.60		
3rd Road			40.00	0.10		4.00		
Shiva temple road								
L Type road		2	107.00	0.10		21.40		
L Type road		2	25.00	0.10		5.00		
Kuvempu Nagar								
Road		2	370.00	0.10		74.00		
MCEHS Layout								
1st Cross Road		2	125.00	0.10		25.00		
2nd Cross Road		2	147.00	0.10		29.40		
3rd Cross Road		2	140.00	0.10		28.00		
Beside Jakkur Govt. School		2	109.00	0.10		21.80		
Behind Jakkur Govt. School		2	375.00	0.10		75.00		
Manjunath Road								
1st Cross Road		2	120.00	0.10		24.00		
2nd Cross Road		2	138.00	0.10		27.60		
3rd Cross Road		2	130.00	0.10		26.00		

SHIVA CONSTRUCTION AND CONSULTANCY

Kalidasa layout		2	30.00	0.10		6.00		
1st Road		2	110.00	0.10		22.00		
2nd Road								
Bhagat singh enclave		2	100.00	0.10		20.00		
RHS Road		2	55.00	0.10		11.00		
RHS Road		2	80.00	0.10		16.00		
LHS Road								
Royal Enclave								
~~Near Kaljin Prakruthi~~ Layout		2	230.00	0.10		46.00		
1st Cross Road		2	60.00	0.10		12.00		
2nd Cross Raod		2	140.00	0.10		28.00		
Cross to 1st and 2nd Cross Road								
~~Sampigehalli Layout~~ 3rd C/s Road		2	200.00	0.10		40.00		
New Asphalt Road								
2nd Cross Road LHS		2	80.00	0.10		16.00		
2nd Cross Road RHS		2	75.00	0.10		15.00		
3rd Cross Road		2	80.00	0.10		16.00		
3rd A Cross Road		2	70.00	0.10		14.00		
Asphalt Resurfacing, road Cut Portion								
5th Cross Road		2	170.40	0.10		34.08		
4th Cross Road		2	175.20	0.10		35.04		
Main Road		2	200.00	0.10		40.00		
1st Cross Road LHS		2	80.00	0.10		16.00		
1st Cross Road RHS		2	75.00	0.10		15.00		
Reva College Road								
		2	355.00	0.10		71.00		
Bellahalli								
2nd Cross Road		2	138.00	0.10		27.60		
BSF STF Layout								
Cross Road		2	120.00	0.10		24.00		
Nirvana layout								
1st Cross Road		2	220.00	0.10		44.00		
2nd Cross Road		2	180.00	0.10		36.00		
Dutta Township								
1st Cross Road		2	115.00	0.10		23.00		
2nd Cross Road		2	135.00	0.10		27.00		
Kaveri Layout								
1st Cross Road		2	190.00	0.10		38.00		
2nd Cross Road		2	190.00	0.10		38.00		
3rd Cross Road LHS Road		2	160.00	0.10		32.00		
3rd Cross Road RHS Road		2	160.00	0.10		32.00		
End Portion & Front		2	25.00	0.10		5.00		
Approach Road to 3rd Cross Road		4	30.00	0.10		12.00		
Shiridi Sai Nagara								
1st Cross Road		2	190.00	0.10		38.00		
1st Cross Road Cross		2	210.00	0.10		42.00		
3rd Cross Road		2	445.00	0.10		89.00		
Basic rate	478.00							
Area weightage 10%	47.80							
Sub Total	525.80							
Total						1385.52	525.80	728506.42

SHRIYA CONSTRUCTION AND CONSULTANCY

17	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 (M 5.0) Using 40 mm nominal size graded crushed coarse aggregates(Specification No. 2.1.1 PWD SR 2021-22 Vol -I P.No.50)								
		Cum							
	CC Road Resurfacing								
	Dwaraka nagar bagalur cross, CC ROAD								
	1st Cross Road		1	33.00	3.00	0.15	14.85		
	2nd Cross Road		1	180.00	4.00	0.15	108.00		
	3rd Cross Road		1	250.00	4.50	0.15	168.75		
	Basavalingappa Layout								
	5th Cross to Last Road		1	70.00	3.7	0.15	38.85		
	Cross Road RHS		1	55.00	3.5	0.15	28.88		
	Cross Road to 5th Cross Road		1	130.50	1.50	0.15	29.36		
	Cross Road to 4th Cross Road		1	100.00	1.50	0.15	22.50		
	Cross Road to Al Auds School		1	95.00	1.50	0.15	21.38		
	Parallel Road to 1st Cross Road		1	130.00	1.50	0.15	29.25		
	Cross Road 1		1	23.00	1.50	0.15	5.18		
	Cross Road 2		1	24.00	1.50	0.15	5.40		
	Cross Road 3		1	26.00	1.50	0.15	5.85		
	Cross Road 4		1	24.00	1.50	0.15	5.40		
	Cross Road 5		1	25.00	1.50	0.15	5.63		
	End Road RHS		1	27.50	1.50	0.15	6.19		
	Kattigenahalli								
	Cross Road 1		1	74.00	1.50	0.15	16.65		
	Cross Road 2		1	96.00	1.50	0.15	21.60		
	Cross Road 3		1	157.00	1.50	0.15	35.33		
	Cross Road 4		1	154.00	1.50	0.15	34.65		
	Cross Road 5		1	136.00	1.50	0.15	30.60		
	Basic rate	4976.00							
	Area weightage 10%	497.60							
	Sub Total	**5473.60**							
	Total						634.28	5473.60	3471767.64
18	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. (PWD SR 2021-22 Vol -III Pg 138 item no 20.29)								
		Cum							
	New CC Road								
	Dwaraka nagar bagalur cross								
	1st Cross Road		1	33.00	3.00	0.15	14.85		

	2nd Cross Road		1	180.00	4.00	0.15	108.00		
	3rd Cross Road		1	250.00	4.50	0.15	168.75		
	Basavalingappa Layout								
	5th Cross to Last Road		1	70.00	3.7	0.15	38.85		
	Cross Road RHS		1	55.00	3.5	0.15	28.88		
	Cross Road to 5th Cross Road		1	130.50	3.50	0.15	68.51		
	Cross Road to 4th Cross Road		1	100.00	3.50	0.15	52.50		
	Cross Road to Al Auds School		1	95.00	3.50	0.15	49.88		
	Parallel Road to 1st Cross Road		1	130.00	5.50	0.15	107.25		
	Cross Road 1		1	23.00	4.50	0.15	15.53		
	Cross Road 2		1	24.00	4.50	0.15	16.20		
	Cross Road 3		1	26.00	4.50	0.15	17.55		
	Cross Road 4		1	24.00	4.50	0.15	16.20		
	Cross Road 5		1	25.00	4.50	0.15	16.88		
	End Road RHS		1	27.50	4.50	0.15	18.56		
	Kattigenahalli								
	Cross Road 1		1	74.00	3.50	0.15	38.85		
	Cross Road 2		1	96.00	3.50	0.15	50.40		
	Cross Road 3		1	157.00	3.50	0.15	82.43		
	Cross Road 4		1	154.00	3.50	0.15	80.85		
	Cross Road 5		1	136.00	3.50	0.15	71.40		
	Basic rate	6837.00							
	Area weightage 10%	683.70							
	Sub Total	7520.70							
	Total						1062.30	7520.70	7989239.61
19	**Cost of Haulage** Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)								
	Qty frm Item No-1	**t.Km**		86.59	1.28		110.84		
	Qty frm Item No-7			1742.69	1.28		2230.65		
	Qty frm Item No-1	**t.Km**		169.56	1.28		217.04		
	Qty frm Item No-7			2029.29	1.28		2597.49		
	Qty frm Item No-1	**t.Km**		778.80	1.28		996.86		
	Qty frm Item No-9			1514.18	1.28		1938.16		
	Qty frm Item No-1	**t.Km**		246.22	1.28		315.16		
	Qty frm Item No-7			1692.29	1.28		2166.13		
	Qty frm Item No-1	**t.Km**		538.09	1.28		688.75		
	Qty frm Item No-9			2051.10	1.28		2625.41		
	Basic rate	**12.00**					13886.48	105.60	1466413.00
	8Km 12*8	96.00							
	Area Weightage 10%	9.60							
	Total	105.60							

CONSULTANCY * SHRIYA CONSTRUCTION AND

	Sub-Total for CSR 2021-22	87477777.00
	GST Charges (12% of estimated cost)	10497334.00
	DPR Charges (1% of estimated cost)	1000000.00
	Project management And Consultancy Charges(1% of estimated cost)	1000000.00
	Miscellenious and rounding	24889.00
	Grand Total Amount Rs.	100000000.00
	(Rupees Ten Crores Only)	

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The estimate is based on C.S.R of 2018-2019, PWD 2021-2022 Issue Rates and Data Rates.and Approved Data Rate of
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other Programs or Grants

Assistant Engineer

Executive Engineer
Byatarayanapura - Division
B.B.M.P

Assistant Executive Engineer
Byatarayanapura Sub-Division
B.B.M.P

SHRIYA CONSTRUCTION AND CONSULTANCY

ADMINISTRATIVE APPROVAL
Accorded For Rs. 10.00 Crore only
Head of A/c. P5877
Div. Ref No. 37 Date 14/11/22
AE EE(BTP)

Technical Sanction
Accorded For 10.00 Crore only
Head of A/C. P5877
CER NO : 33 Dt: 01/07/2022